

1044b UIC - EAST POPLAR OIL FIELD
ENFORCEMENT CASE SDWA 1431
Folder ID: 13643 2000 Privileged

Release in LII

~~2005-2006, Colorado~~
~~the T-1 on 101 km. 101 km. 101 km. 101 km.~~
~~0/0~~

Region 8



13643

LOCATE WELL CORRECTLY

	22		

Form No. 4
(Gen. Rule 206.3 and 230)

(SUBMIT IN TRIPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

COMPLETION REPORT

Company TXO Production Corp. Lease Buckles "B" Well No. 1
Address 2705 Montana Ave. Suite 300 Billings, MT Field (or Area) East Poplar
The well is located 660 ft. from (N) 59101 line and 1980 ft. from (E) XXX line of Sec. 22
Sec. 22; T. 28N; R. S1E; County Roosevelt; Elevation 2106
Commenced drilling August 11, 19 81, Completed October 19, 19 81

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as Temporarily Abandoned Signed Leo A. Heath
(oil well, gas well, dry hole) Title Project Engineer
Date October 30, 1981

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>5802</u> to <u>5808'</u> <u>O & W</u>	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sacks of Cement	Cut and Pulled from
8-5/8"	24	K-55	ST&C	1146	Surf	1146'	760	None
4-1/2"	10.5 & 11.6	K-55	ST&C	5913	Surf	5913'	585	None

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7	J-55	EUE 8rd	5735'	None

COMPLETION RECORD

Rotary tools were used from Surface to 5913'
Cable tools were used from _____ to _____
Total depth 5913 ft.; Plugged back to 5835' T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
5806	5808	2 JSPF	5806	5808	200 gal Acid	3100 to 1800 psi
			5806	5808	Squeezed w/185 sx cmt	2100 psi
5802	5804	2 JSPF	5802	5804	200 gal Acid	800 psi

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Charles "C" (pool) formation.
I. P. 6 barrels of oil per 24 hours flowing - well temporarily abandoned
(pumping or flowing)
TSTM 622 Mcf of gas per 24 hours, or 99 % W.C.
(OVER)

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DAILY DRILLING REPORT

DATE 8-23-81

DAY 10

OPERATOR TXD

WELL Buckles "B"1

DEPTH 5913 ~~5907~~ OPERATIONS REPORT TIME TOOH

0 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Charles C

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
5								30	2

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM
NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE
5913	10		

REMARKS: C & C 2 1/2 hrs. TOOH.
Ran D&D-MSEI From 5905'-
1178' & FDC-C&C From
5905'-5700'. TIN. C & C
TOOH.

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DAILY COSTS

RIG _____ 6000
MUD _____ 4400
WATER _____ 540
BITS _____
LOGGING _____ 15865
TESTING _____
CEMENTING _____
RENTALS _____ 1110
MATERIALS (csg & wh) _____ 1676
Csg crew _____ 2466
SBJR _____ 200

DAILY TOTAL 000527 258
CUMULATIVE 222345

DAILY DRILLING REPORT

DATE 8-24-81

DAY 11

OPERATOR TXO

WELL Buckles "B" 1

DEPTH 5913 OPERATIONS REPORT TIME RD RT

0 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Charles C

MUD: WT ; VIS ; WL ; FC ; PH ; SOLIDS ; CL ; PV

YP ; GELS ; OIL ; LCM ;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT RPM NO. 1 PUMP PRESSURE PUMP "X" "X" SPM
 NO 2 PUMP PRESSURE PUMP "X" "X" SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

Ran 141 jts 4 1/2" 10.5# & 11.6# csg

REMARKS: Ran 19 jts 4 1/2" 11.6# K-55
 ST&C 8rd & 122 jts 4 1/2"
 10.5# K-55 ST&C 8rd csg
 Set @ 5913' w/ FC @ 5863'
 & # D.V. @ 5398'. Cmt 1st

Stage w/ 110 sxs Class "G" w/ 10% D-44, 0.8% D-60, 0.3% D-13, 0.2% D-46. Cmt 2nd

Stage w/ 485 sxs 65/35 per w/ 6% gel, 10% D-60 & 0.2% D-46 Tailed in w/ 125 sxs Class "G" w/ 10% D-44, 0.6% D-60 & 1 1/2 #/sk J-51. Had

DAILY COSTS

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RIG

MUD FEB 25 2000

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BITS

LOGGING

TESTING

CEMENTING 20,757

RENTALS 75

Csg Trucking MATERIALS (csg & wh)

Super 200

Csg 43000

 000526

DAILY TOTAL 70032

CUMULATIVE 292,377

DAILY DRILLING REPORT

DATE 9-1-81

DAY _____

OPERATOR TXOPG

WELL Buckles "B" #1

DEPTH _____ OPERATIONS REPORT TIME Calg. out Cement

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Tarpest cent ^{C5115} drilled
250' cement. Drilled through.
DV tool

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DAILY COSTS

RIG 3300

MUD _____

WATER _____

BITS _____

LOGGING _____

TESTING _____

CEMENTING _____

RENTALS 300

MATERIALS (csg & wh) _____

finger 200

DAILY TOTAL \$ 3,200.00 000325

CUMULATIVE \$ 331,305

DAILY DRILLING REPORT

DATE 9-2-81

DAY _____

OPERATOR TXOPG

WELL Buckles "B" #1

DEPTH 5835' OPERATIONS REPORT TIME TH

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM
NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Drilled to 5835' TOH.
off FC & cut
Run CR-CCL log

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DAILY COSTS

RIG \$ 3800
MUD _____
WATER _____
BITS _____
LOGGING _____
TESTING _____
CEMENTING _____
RENTALS 300
MATERIALS (csg & wh) _____
Mechanical 2776
Supervision 200

DAILY TOTAL \$ 7076 000524
CUMULATIVE 341,381

DATE 8-27-81 WELL NAME Buckley B#1 OPERATOR T&P Co

DRILLING COMPLETIONS ✓ OPERATIONS

8-29-81 - W O G R

8-30-81 = T I H w/ bit & scraper.

8-31-81 = S D F W E.

Daily	Costs
H + S	\$ 753
Wellhead	8000
Pipes	26,000
Rentals	900
Trucking	1,100
Rig	1,000
Bits	375
	<u>\$ 38,128</u>

CWC = \$ 330,505

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DATE 9-3-81 WELL NAME BUCKLES "B" #1 OPERATOR TXO
DRILLING COMPLETIONS X OPERATIONS

Circ pkr fluid, TOOH; Pick up Vann 3 5/8" perf gun and Baker model "R" pkr on 188jts 2 3/8" tlg. Ran in hole w/ tools + ran GR-CCL log to correlate setting depth. Set pkr @ 5745' w/ 18,000# compr. Installed wellhead. Dropped firing bar to perf crg w/ Vann gun @ 5806-08' w/ 4 JSPP. No flow into well. Fished firing bar w/ WL and released Vann gun. Btm OE tailpipe @ 5788', Baker profile SNC 5711'. SDFN

(See well file for bottomhole assembly details.)

DWC =	
rig	2640
perf	5424
logs	4345
wireline	1200
packers	2500
rental	500
supr.	200
	<u>\$16,809</u>

CWC = \$358,190

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Judges

000002

DATE 9-4-81 WELL NAME Buckley Bⁿ #1 OPERATOR TXO-PC
DRILLING _____ COMPLETIONS X OPERATIONS _____

RU Western and acidized perforations w/ 200 gal 15% Spearhead Acid, BOP = 3100#
broke to 1800#, dec rate to 1/2 BPM @ 500#, ISIP = 300#, 27 BLTR
Flowed acid into the pit, turned flow to test tank, flowing 1/2"
stream on 10/64" ch @ 225# FTP. Left flowing overnight.

DWC = 5705

rig	725
acid	1660
wt	120
supr	200
misc (rig, wt, nonstabs)	3000
	<hr/> 5705

241,213
5,705
246,918

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DATE _____ WELL NAME BUCKLES "B" #1 OPERATOR TXO-PC
DRILLING _____ COMPLETIONS X OPERATION _____

9-5-81 Choke plugged, SITP = 500 psi, cleaned out choke, flowing at 375-400 psi w/ 12/64" ch, trace oil w/ heavy emulsion in water. Left flowing overnight. ~~Choke plugged~~
~~by [unclear]~~

9-6-81 Choke plugged, shut well in.
Fluid rec. in 2 days intermittent flowing = 7 Bo + 18 BW.

9-7-81 SI

9-8-81 SI

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DATE 9-9-81 WELL NAME BUCKLES "B" #1 OPERATOR TXO
DRILLING _____ COMPLETIONS X OPERATION _____

Opened to flow @ 3:00 pm 9-8-81, initial flow temp = 67°F,
flowed 1½ hrs to tank, flow temp increased to 80°F, rec
25 BF at 210 psi FTP on 19/64" ch.; continue to flow overnight

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DATE 9-10-81 WELL NAME Buckles "B" #1 OPERATOR TXO
DRILLING _____ COMPLETIONS X OPERATION _____

Flowed 18 BD + 242 BW in 15 hrs on 19/64" ch at 350 psi FTP,
wellhead temp = 110°F, 10 min SITP = 600 psi, Opened on 12/64" ch
at 425 psi FTP, wellhead temp = 113°F, continue flowing.

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000338

DATE 9-11 WELL NAME Buckley "B" #1 OPERATOR TXS
DRILLING COMPLETIONS X OPERATION

Flowed 7 BO + 210 BW in 24 hrs on 12/64" ch w/ 425 psi FTP,
flowing wellhead temp dec to 95°F. Water analysis indicates channeling

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DATE 9-13-81 WELL NAME Buckley "R" #1 OPERATOR TXD

DRILLING COMPLETIONS ✓ OPERATION

~~WHP~~ WHP 500 psi. CK was plugged off.
^{Cleaned CK &} ~~As needed~~ well to take on 12 1/4" CK. Flowed
well 1 1/2 hrs. R.H. Gearhart & ran ~~the~~ diff
temp. logs. R.H. Halliburton & pumped
10 bbls Fresh wtr, 20 bbls Tem-block 50 &
10 bbls Fresh wtr. & Displaced w/ ~~heavy~~
heavy salt wtr. ~~Initial pump in pressure 1 BPM @ 3000 #.~~
Displaced @ 2 1/2 BPM @ 1000 #. ~~Circ~~ Circ
hole w/ heavy salt wtr. S.D.F.W.E.

Reg	2040
Supr	200
Rentals	200
Wtr	530
Wireline	3860
Pumping	2770
	<u>9600</u>

CWC: \$ 260,373

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DATE 9-14-81 WELL NAME Buckles B1 OPERATOR TXO

DRILLING COMPLETIONS ✓ OPERATION

Well S.I. for Sunday Prep. to
TOO # w/ +bg.

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DATE 9-15-81 WELL NAME Buckles "B" "1" OPERATOR TXO
DRILLING COMPLETIONS X OPERATION

SITP = 50 psi, Pulled tbg & plr from 3800' to 800' with well flowing
SD to set WL tbg plug, SITP inc from 100 psi to 220 psi in 2 1/2 hrs,
Set tbg plug in 6" nipple, Ran tbg & plr to 4280', Prep to circ
salt wtr to kill well.

DWIC = \$ 3975

est.	rig	\$ 1425
	WL	2000
	wtr	500
	rental	50
		<u>3975</u>

(CWC: #264,348)

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000533

DATE 9-16-81 WELL NAME Buckles "B" #1 OPERATOR TXO

DRILLING COMPLETIONS X OPERATIONS

SIT.P = 75 psi, pulled string & pipe, T.I.H. w/ overshoot & rec Vann
perf gun, well flowing during trip @ est 150-180°F, oil cut inc
from 1% to 10% at end of day, no gauge on flow, SDFN.

	rig	2300
Well-Pro Rental	rental	600
	Supv.	200

DWC = \$310.0

(CWC: \$267,448)

DATE 9-17-81 WELL NAME Buckles B #1 OPERATOR TXDDRILLING COMPLETIONS OPERATION ✓

SITP 400 psi. Bleed down press. TOOK up tag.
 R.H. Geachart Wireline & ran a CBL-GK from 5830' to
 4285' (cmt top). Log showed good band 5000'-T.O.,
 partial band 4700'-5000' & poor band
 above 4700'. T.H. up 1 jt 2^{3/8}" tailpipe,
 Baker Model "R-3" singl grip pkr, 1 jt 2^{3/8}" tbg,
 1.87" I.D. "F" nipple, & 2^{3/8}" tbg. Set tailpipe
 @ 5766' w/ pkr @ 5735' & "F" nipple @
 5705'. ^{Wignott compression}

N.H. well head & opened well to the
 tanks on 28/64" ck @ 8:00 p.m. 9-16-81.

Costs:

Rig	2102
Wireline	4585
Sugar	200
Rentals	100
Baker Pkr	500
	\$ 7487

(CWC: 271,835)

Tank Gauge 4'2" @ 8:00 p.m. 9-16-81

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DATE 9-18-81 WELL NAME Buckley "B" #1 OPERATOR TXO
DRILLING COMPLETIONS X OPERATION

Flowed well on 16/64" ch, FIP = 280 psi, tested 22 BFPH
w/ 2 1/2 % oil cut

000510

DATE _____ WELL NAME KUCKLES B # 1 OPERATOR TXO
DRILLING _____ COMPLETIONS X OPERATIONS _____

9-19-81 Flowed 340 BF in 21 hrs, no oil, 13/16" ch,
FTP 325 psi.

9-20-81 Flowed 450 BF w/ 10 Bo in 24 hrs, 16/64" ch

9-21-81 Flowed 460 BF w/ 11 Bo in 24 hrs, 16/64" ch

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DATE 9-22-81 WELL NAME 'Buckles' B -1 OPERATOR TXO
DRILLING _____ COMPLETIONS X OPERATIONS _____

Rig up NL well service, release + pull stg + pkr, prepare to run
cement retainer, SDFN

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000508

DATE 9-22-81 WELL NAME Buckles B #1 OPERATOR TXO
DRILLING _____ COMPLETIONS X OPERATIONS _____

SICP = 430 psi, Ran Howes cement retainer on 2 3/8" tbg, set @ 5645', Rig up Halliburton, estimate of 3 BPM @ 1000 psi, squeezed w/ 100 SX Cl "G" w/ .8% FLA @ 2 BPM w/ 800 psi, did not squeeze string out of retainer, reverse circ tbg, SDFN.

DWC = \$9246

(CWC: \$281,081)

rig	\$1664
cement	\$5224
plan.	
truck	290
rent	50
supr.	200
	<u>\$7128</u>

Mon.

rig	1518
rent	100
supr	200
	<u>\$1818</u>

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DATE 9-24-81 WELL NAME Buckles 'B' #1 OPERATOR TXO

DRILLING _____ COMPLETIONS X OPERATIONS _____

Strung into retainer, pressured to 1300 psi, held OK, TOOH w/ thg,
TIT w/ 3 7/8" bit & scraper.

DWC = \$ 2,704

M/L = \$ 2324

rept - 100

with. 80

Dispt. 200

2704

CWC: \$ 283,785

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DATE 9-25-81 WELL NAME BUCKLES B #1 OPERATOR TXO

DRILLING _____ COMPLETIONS X OPERATION _____

Drilled out cmt retainer @ 5645', hit top cmt @ 5650', drilling out cmt.

DWC = \$3371

283,785

3,371

287,156

nig \$3071
rental 100
supv. 200
\$3371

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000505

DATE _____ WELL NAME BUCKLES "B" #1 OPERATOR TXO
 DRILLING _____ COMPLETIONS X OPERATION _____

9-26-81 Drilled out cnt to PBTD 5840', pressured csg to 1600# & bled off immediately, prep to squeeze again.

		Rig	\$2487
		rent	100
		bit	225
		supr.	200
	287,156		
	3012		
CWC:	577,524	DWC =	\$3012
	\$290,168		

9-27-81 TIH w/ Model "R" phr, set @ 5675' w/ TP @ 5705', Rig up Western, squeezed w/ 50 sx Class "G" cnt w/ 0.2% WR-6, 0.5% CF-6, pumped @ 1/2 BPM + 2000 psi, dec to 3/4 BPM + 1500 psi displaced to perf + squeezed off w/ 2100 psi, attempted to reverse out cnt w/o success, pressured tbg to 4000 psi + held, pulled phr up to 1200', re-pressured tbg to 4000 psi and cleared cnt from tbg, TOOH, SDFN

		rig	\$3054
		cnt	2600
		truck	290
		rent	150
		supr.	200
	296,471	DWC =	\$6303

9-28-81 SDFWE

WOCR

DATE 9-29-81 WELL NAME Buckley B #1 OPERATOR TXO
DRILLING COMPLETIONS X OPERATIONS

TIH w/ bit + scraper, drill out cont strings from 600' to 5700'.
SDFM.

rig	\$ 3300
rent.	100
supv.	200
DWC =	\$ 3600

(CWC: \$ 300,071)

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DATE 9-30-81 WELL NAME Buckles "B" #1 OPERATOR TXO

DRILLING COMPLETIONS X OPERATION

Drilled out cmt to PBD, perf clear of cmt, Ran Mod "R" plr to 5675', TP @ 5705', squeezed perf w/ 35 Sx Class "G" w/ .4% WR-6 .6% CF-6 + 35% silica flour, pumped in @ 1/2 BPM w/ 1500 psi, pumped in stages and squeezed @ 2100 psi. Pulled plr. SDFN.

rig	\$ 3052
ctrl	210
rent	100
super	200
	<u>\$ 3562</u>

300, 071

3 562

303, 633

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DATE 10-1-81 WELL NAME BUCKLES B #1 OPERATOR TXO

DRILLING _____ COMPLETIONS X OPERATION _____

Drilled out cmt from 5780' to 5820'. Pumped into perms
@ 2 BPM w/ 1100 psi. SDFN

rig \$3024

supp. 200

rental 100

DWC = \$3324

(\$306,957)

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000501

DATE 10-2-81 WELL NAME Buckles B #1 OPERATOR TXO

DRILLING _____ COMPLETIONS X OPERATIONS _____

Pulled bit & scraper, Rig up Gearhart, perfed @ 5802-04' w/
2 JSPE, total 9 sl. ts. w/ 3 1/8" HSC gun, Ran 2 7/8" Hg w/ Model "R"
phr set @ 5735', Opened well to flow @ 3:30 PM, FTP = 260 psi w/
12/64" ch.

w/ TPE 5766'

rig	\$ 2216
rent	100
perf	1726
Supr.	200

DWC = \$ 4242

(CWC: \$ 307,875)

standby rate	\$ 1679
rental	100
	\$ 1779

opening gauge 9" fluid

003500

TE _____ WELL NAME Buckles "B" #1 OPERATOR TXO
DRILLING _____ COMPLETIONS X OPERATION _____

10-3-81 Choke plugged, TP = 390 psi, cleared out choke, left
flowing on $1\frac{1}{2}/64"$ w/ FTP = 50 psi, flowed 30 bbls load
water in 8 hrs.

10-4-81 Flowed 25 BF w/ no oil in 8 hrs, $1\frac{1}{2}/64"$ ch, FTP 150 psi

10-5-81 Flowed 25 BF in 22 hrs w/ oil specks, $1\frac{1}{2}/64"$ ch, FTP 210 psi
Prepare to stabilize

DWC = \$3000 (rig standby)

(CWC \$ 310,875)

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E 10-6-81 WELL NAME Buckley B #1 OPERATOR TXO

DRILLING _____ COMPLETIONS X OPERATIONS _____

Acidized perfs w/ 200 gal 15% spearhead acid, ATP = 800 psi @ 1 BP,
ISIP = 750 psi, flowed on open ch @ 120 psi, left flowing
overnight on 12/64" ch., Choke plugged during night, SITP = 300 ps
this AM, prep to acidize w/ diverting agent.

DWC = ¹3074

CWC: # 313,949

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: 10-7-81 WELL NAME Buckles "B" #1 OPERATOR TXO
DRILLING _____ COMPLETIONS X OPERATIONS _____

Rig up Western, estab. rate 3 BPM @ 1300 psi, pumped 250 gal diverting agent of 40# gel w/ 300# benzoic acid flakes + 9 ball sealers, followed w/ 500 gal 15% spearhead acid, BDP = 2300 psi, ATP = 1500 psi @ 1.6 BPM, ISIP = 650 psi. 73 BLWTR. Started flowing back on 12/64" ch w/ 290 psi FTP.

rig	\$ 240
acid	2808
wt	120
supr.	200
	<u>3368</u>

DWC = \$3368

CWC \$317,317

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DATE 10-8-81 WELL NAME Buckles "B" #1 OPERATOR TXO
DRILLING COMPLETIONS X OPERATION

Flowed 40 bbls LW in 3 hrs, opened to 16/64" ch, well died during night, SITP=0, opened wellhead and blew out solid plug of diverting material, well flowing on 16/64" ch, FTP=300 psi / rec BF in h
 % oil.

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DATE 10-9-81 WELL NAME Buckles "B" #1 OPERATOR TXO
DRILLING COMPLETIONS X OPERATION

Flowed 216 BF in 18 hrs w/ 5% oil cut, FTP = 350 psi on
16/64" ch, fluid warming up.

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DATE 10-10-81 WELL NAME Buckley "B" #1 OPERATOR TXO

DRILLING _____ COMPLETIONS X OPERATION _____

^{9th} Flowed 430 BF in 24 hrs w/ 5% oil cut, FTP = 310 psi on 16/64" ck. ³¹⁰

10-11-81 11 ft $\frac{1}{2}$ " BF TP 310 ^{CSG 310}
16/64

10-12-81 17 ft $9\frac{1}{2}$ " BI TP 310 ^{CSG 310}
 $1\frac{1}{2}$ % oil cut. 16/64

10/10/81 Flowed ~~2080, 410 BW~~ 2080, 410 BW in
24 hrs. FTP 310 psi, 16/64" ck.

10/11/81 Flowed 3 BD, 107 BW in 24 hrs. FTP
310 psi, 16/64" ck.

10/12/81 Flowed 5 BD, 350 BW in 24 hrs FTP 310 psi,
16/64" ck.

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000494

DATE 10-13-81 WELL NAME Buckles B #1 OPERATOR TXO
DRILLING COMPLETIONS X OPERATION

Flowed 5 BO + 445 BW in
24 hrs. FTP 300 # 18/64" CK.

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000493

DATE 10-15-81 WELL NAME Buckles 'B' #1 OPERATOR TXO
DRILLING COMPLETIONS X OPERATIONS

report for 10-14-81: Flowed 3 B0 + 100 BW in 24 hrs on 12/64" ch,
FTP = 405 psi

report for 10-15-81: Flowed 43 BF in 24 hrs w/12/64" oil,
12/64" ch. FTP = 380 psi

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000492

DATE _____ WELL NAME Burkles "B" #1 OPERATOR TXO
DRILLING _____ COMPLETIONS X OPERATION _____

10-17-81 Flowed 5 BO + 483 BW in 24 hrs on 22/64" ch w/
FTP = 210 psi

10-18-81 Flowed 6 BO + 646 BW in 24 hrs on 23/64" ch w/
FTP = 210 psi

10-19-81 Flowed 6 BO + 622 BW in 24 hrs on 23/64" ch w/
FTP = 200 psi

10-20-81 Shut in for evaluation. Drop from report until further
activity.

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003490

DATE _____ WELL NAME Buckles P. / OPERATOR TXG

DRILLING _____ COMPLETIONS _____ OPERATION _____

Flowed 30 BF in 24 hrs w/no oil,
FTP = 380 psi, 12/64" CK.

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000491

8-11-81 Buckles "B" #1

Rig shut down for
routine maintenance,
will spud 8-12-81.

8-11-81 State "C" #1

SI to shoot FL

DAILY DRILLING REPORT

DATE 8-12-81

DAY 1

OPERATOR TXO

WELL Buckles "B" #1

DEPTH 860' OPERATIONS REPORT TIME Drilling Surface

860' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: surface

MUD: WT 10.1; VIS 41; WL Nc; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
1A	RR	12 1/4"	HTC		3-.22	U	0 860'	860	

WEIGHT ON BIT all RPM 120 NO 1 PUMP PRESSURE 600 PUMP 5 1/2" X 6" X 64 SPM
NO 2 PUMP PRESSURE 600 PUMP 5 1/2" X 14" X 58 SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Spudded @ 10:00 pm on 8-11-81
Drilled 12 1/4" hole to 860', trip for bit

DAILY COSTS	
RIG	<u>\$ 17,200</u>
MUD	<u>2000</u>
WATER	<u>1000</u>
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	<u>200</u>
MATERIALS (csg & wh)	
<u>rig move</u>	<u>10,000</u>
DAILY TOTAL	<u>\$ 29,400</u>
CUMULATIVE	<u>\$ 29,400</u>

536b

WELL DRILLING REPORT

DATE 8-13-81

DAY 2

OPERATOR TXO

WELL Buckles "B" #1

DEPTH 1206 OPERATIONS REPORT TIME WOG

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM
NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Set pipe 8'
24" csg (26 ft)
Pipe set at 1149' Ext
csg pkr was set at
675' 760 SX cmt
class G 2 1/2 cholate
1/4" cells per SX
in cmt 15.8#
Yield 1.14. Good circulation
throughout. Leak held & pkr set.

DAILY COSTS	
RIG	6920
MUD <u>910</u>	47.0
WATER	930
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	
MATERIALS (csg & wh)	
Fuel	1,625
Wires	2410
Lines	6621
	11,394
DAILY TOTAL	430,420
CUMULATIVE	430,420

Supervisor's name by Walt
Date 8-13-81 by Walt

536a

212'

Bird #2
2085 GL.

DAILY REPORT

DATE: 19 AUGUST 81

WELL: BUCKLES B-1

PRESENT TD: 5200' _____ ft./24 hr.

PRESENT OPERATION: OTTER

GENERAL LITHOLOGY: _____

ZONES OF LITHOLOGIC CHANGE: _____

SAMPLE CONDITION: _____

AVERAGE DRILLING RATE: _____

DRILLING BREAKS: _____

LOST CIRCULATION ZONES: _____

SAMPLE TOPS: _____

LOGGING UNIT BREAKDOWN:

TIME (HRS.): _____

INTERVAL: _____

MUD WT: 10.4, VISCOSITY 32, BACKGROUND GAS _____, TRIP GAS _____

REMARKS: Wtr Ls 17

TRIP 18-Aug 81 new bit on btm:

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Kalvin Jones - Mud logger

Carter Stewart Geo.

000551

2 KB±2096

DAILY REPORT

DATE: 20 AUGUST

WELL: Buckles # B-1

PRESENT TD: 5516 (approx 37' into charles) 316' ft./24 hr.

PRESENT OPERATION: drilling

GENERAL LITHOLOGY: _____

ZONES OF LITHOLOGIC CHANGE: _____

SAMPLE CONDITION: _____

AVERAGE DRILLING RATE: _____

DRILLING BREAKS: _____

LOST CIRCULATION ZONES: _____

SAMPLE TOPS: _____

LOGGING UNIT BREAKDOWN:

TIME (HRS.): _____

INTERVAL: _____

MUD WT: 10.3, VISCOSITY 33, BACKGROUND GAS _____, TRIP GAS _____

REMARKS: Kibby @ 5180 - 3084 (flat to Buckles A-1)

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000550

2106
11
2117 KB

DAILY REPORT

DATE: 21 AUGUST,

WELL: BICKLES

PRESENT TD: 5810 (-3693) ft./24 hr.

PRESENT OPERATION: drlg

GENERAL LITHOLOGY: CHARLES FORMATION CHARLES "C" @ 5821(-3704)

ZONES OF LITHOLOGIC CHANGE:

SAMPLE CONDITION:

AVERAGE DRILLING RATE:

DRILLING BREAKS:

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LOST CIRCULATION ZONES:

SAMPLE TOPS: CHARLES C - 4' - 3352 0' (A-ZONE 5557 (2344)) (A-ZONE - 3543 15' (A))
corr - 3367 corr - 3558

LOGGING UNIT BREAKDOWN: (GREEN POINT 5700 (-3589) 16' (A))
(-3605)

TIME (HRS.):

INTERVAL:

MUD WT: , VISCOSITY , BACKGROUND GAS 2u , TOTAL KICK 44u , TRIP GAS 44u

REMARKS: @ 1200 pm (1000) Tap @ 5821 = pl (-3704) @ TD 5826

5 FEET INTO CHARLES C - ZONE & DOLOMITIC LIMESTONE. TRACE

RESIDUAL OIL IN CUTTINGS, SCATTERED INTERXCN POROSITY; SCATTERED DRUG

SLOW TO FAIR MILKY CUTS. GAS @ BG 2u T12 44u - DRILLING BREK

5821-26 (2: 1/2; 1 1/2; 2; 2; 3 1/2 MINUTES PER FOOT

@ 5820 (-3703)

via conversation
4/2/01 - L

000549

ELECTRIC LOG
DISTRIBUTION
Buckles "B" #1

TXO Production Corp.
2705 Montana Avenue, Suite 300
Billings, Montana 59101
ATTN: Mike Walen

4 Field
4 Final
1 Sepia

TXO Production Corp.
2150 Fidelity Union Tower
Dallas, Texas 75201
ATTN: Engineering & Production

1 Field
1 Final

Board of Oil & Gas Conservation
2535 St. John's Avenue
Billings, Montana - 59102

3 Final

Dorrance D. Steele
Oil & Gas Supervisor
Fort Peck Agency
Box 637
Poplar, Montana 59255

1 Final

ELECTRIC LOGS: Telecopier on location, telecopy important zones of
interest to: (406) 248-4330
TXO Production Corp.
Billings, Montana

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000552

BUCKLES 'B' #1

ROOSEVELT COUNTY,
MONTANA

PAT

KB:

GL:

SPUD:

Surf Csg:

1146'

Surface Csg: $8\frac{5}{8}"$ 24# K-5526 jts - $8\frac{5}{8}"$ (1149)Production Csg: $4\frac{1}{2}"$, $10\frac{1}{2}"$ + 11.6"141 jts - $4\frac{1}{2}"$ set @ 5913'

TUBING:

 $2\frac{3}{8}"$, 4.7#, J-55 (5730')

1 - BAKER MODEL (R) SINGLE GRIP PACKER (5.75')

1 - 10' - $2\frac{3}{8}"$ TUBING SUB (10.07')1 - $2\frac{3}{8}"$ TUBING (30.35')1 - $2\frac{3}{8}"$ TUBING SUB (10.10')1 - $2\frac{3}{8}"$ TUBING SUB (5.92')1 - $3\frac{3}{8}"$ STEEL CARRIER GUNS
w/ 45 SPF - (4')

PACKER SET @ 5735'

BAKER MODEL "R" SINGLE GRIP

PERFS: 5802' - 5808'

CHARLES 'C' ZONE

PBTD: 5835'

P.O. BOX 211

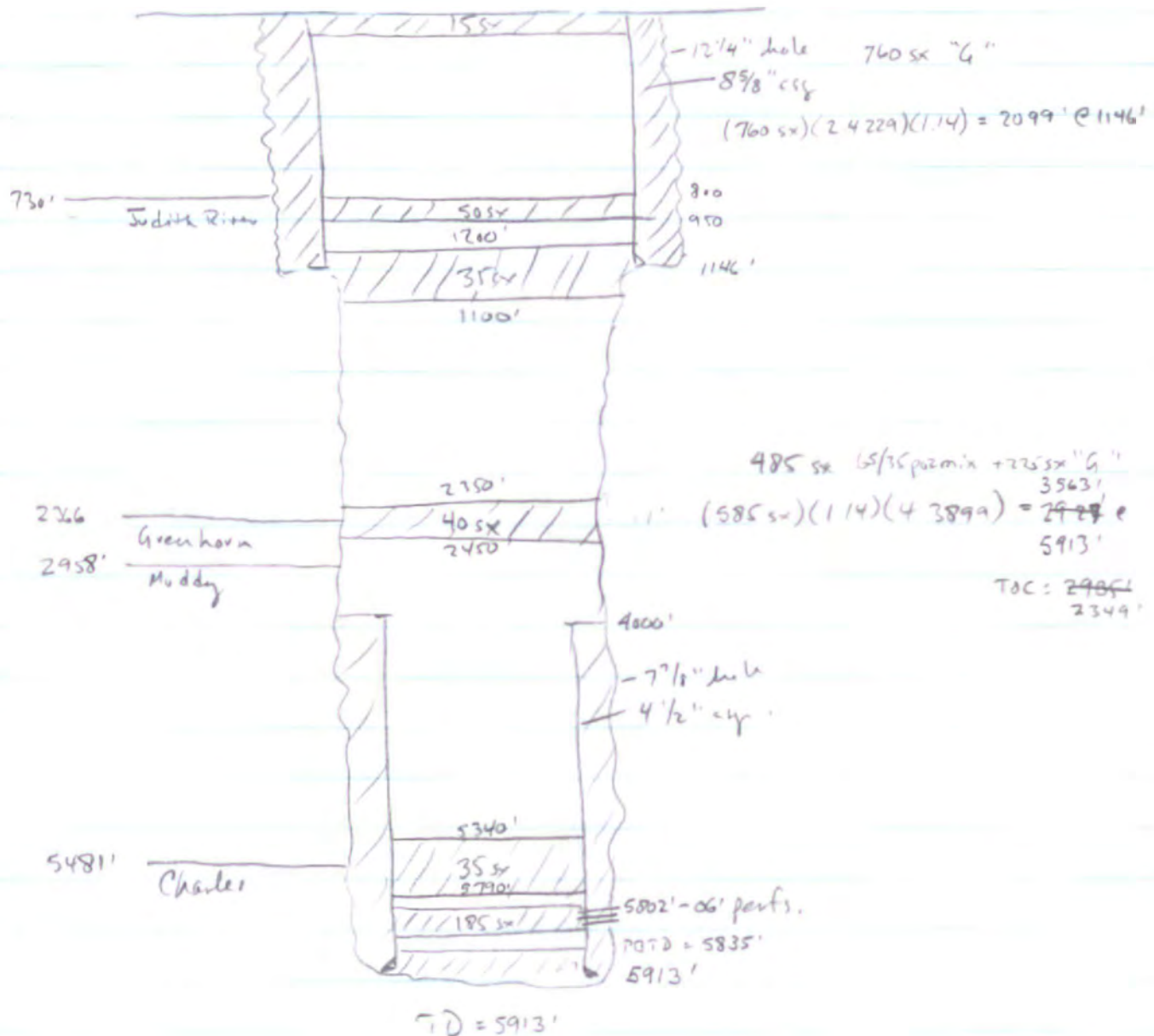
COLUMBIA PETROLEUM
CORPORATION
JULY 1955

000302

Buckles "B"-1

Drilled 10-19-81

P+A'd 5-28-84



DATE: 8-5-81	WELL NAME & NO.: Buckles "B" #1	COUNTY: Roosevelt
AFE NO: 81-1217	LOCATION: NW NE Sec. 22, T28N, R51E	STATE: Montana
FIELD:	TOTAL DEPTH: 6000'	ELEV.: 2106 GL
		KB

C A S I N G P R O G R A M								
STRING	SIZE	SECTION LENGTH	WT.	GRADE	COUPLING	THREAD	HOLE SIZE	SUPPLIER & LOCATION
Revision"								
Production	4½"	5200' 800'	10,5 11,6	K-55 K-55	ST&C ST&C	8rd 8rd	7 7/8" 7 7/8"	Stock Stock

CASING STRING	SET @ FT.	CEMENT VOLUME	% EXCESS	TOP OF CEMENT	TYPE OF CEMENT	ADD. NO.	YIELD WATER	WOC HRS.	COMPANY
Revision"	6000'								
roduction									
st Stage									
lurry		160 sxs*	10						
nd Stage									
ead		425 sxs*	10						
ail		125 sxs							
			* Same as 5½"						

ADDITIVES:

COMPANY: _____

INTERVAL	TYPE MUD	MUD WT.	VIS.	W.L.	LOM (PPB)	NaCl Conc.	PH	CHEMICALS
								<p>RECEIVED</p> <p>FEB 25 2000</p> <p>Office of Enforcement Compliance & Environmental Justice</p> <p>000474</p>

COMPANY: _____

FORMATION	DEPTH	TYPE LOG	INTERVAL

TESTING AND CORING PROGRAM

DRILL STEM TESTING PROGRAMS TESTING COMPANY: _____

CORING PROGRAM CORING COMPANY: _____

SAMPLE AND DRILLING TIME PROCEDURE

PERSONNEL			
NAME	POSITION	HOME PHONE	OFFICE PHONE

MISCELLANEOUS

Roads and location inspected by _____ before MIRT.

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000475

TEXAS OIL & GAS CORP. DRILLING PROGNOSIS

DATE: 6-29-81 WELL NAME & NO.: Buckles "B" #1 COUNTY: Roosevelt
 AFE NO: 81-1217 LOCATION: NW NE Sec. 22, T28N R51E STATE: Montana
 FIELD: East Poplar TOTAL DEPTH: 6000' ELFV.: 2106 GL
 KB

CASING PROGRAM

STRING	SIZE	SECTION LENGTH	WT.	GRADE	COUPLING	THREAD	HOLE SIZE	SUPPLIER & LOCATION
Surface	8 5/8"	1200'	24#	K-55	ST & C	8RD	12 1/4"	Stock
Production	5 1/2"	5200' 800'	15.5 17.0	K-55 K-55	ST & C ST & C	8RD 8RD	7 7/8" 7 7/8"	Stock Stock

CEMENTING PROGRAM

CASING STRING	SET @ FT.	CEMENT VOLUME	% EXCESS	TOP OF CEMENT	TYPE OF CEMENT	ADD. NO.	YIELD WATER	WOC HRS.	COMPANY
Surface	1200'								Western
1st Stage	1200'								
Slurry		360 sxs	100	700	Class "G"	(1)	1.15/5.0	4	
2nd Stage	700'								
Lead		400 sxs	100	Surface	Class "G"	(1)	1.15/5.0	12	
Tail		100 sxs			Class "G"	(2)	1.15/5.0		
Production	6000'								Western
1st Stage	6000'								
Spacer		20 bbls			Salt Wtr.				
Flush		20 bbls			Mud Flush				
Slurry		120 sxs*	10	5200'	1-2 Talc	(3)	1.45/6.0	4	
2nd Stage									
Spacer		10 bbls			Salt Wtr.				
Flush		10 bbls			Mud Flush				
Lead		340 sxs*	10	3200'	TX1 Lite	(4)	1.45/7.65		
Tail		100 sxs			Class "G"	(5)	1.15/5.0	24	

* The values shown are estimated. Actual values will be calculated caliper volumes plus 10% excess.

SPECIAL EQUIPMENT:

8 5/8": guide shoe, insert type orifice fill float, two model "RTS" Lynes external casing packers (one above (700') and one below (900') the Judith River), 6-8 centralizers as needed.

5 1/2": guide shoe, diff. fill collar, centralizers TD to 100' above pay zone at 80' spacing.

ADDITIVES:

- (1) 2% CaCl
- (2) 2% CaCl, 13% Thixad
- (3) 10% NaCl, 0.6% CF-2, 0.3% WR-15, 35% Silica flour, 1 1/2#/sk Permacheck, 0.2% AF-11
- (4) 1% CF-10, 0.2% AF-11, 2% CaCl
- (5) 10% NaCl, 0.6% CF-2, 2% CaCl₂, 1 1/2#/sk Permacheck

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MUD PROGRAM

COMPANY: Red River Mud Company

INTERVAL	TYPE MUD	MUD WT.	VIS.	W.L.	LCM (PPB)	NaCl Conc.	PH	CHEMICALS
0' - 100'	Salt Water	8.8 - 9.4	28-32	N.A.			+ 7	Lime and/or gel in sweeps
100' - 1200'	Brine Mud	9.3 - 9.8	30-33	N.A.	*		+ 7	Salt gel and gel.
1200' - 3100'	Salt Water	8.8 - 9.4	28-32	N.A.			+ 7	Lime &/or gel in sweeps
3100' - 5600'	Brine Mud	9.2 - 10.0	30-38	25-30			+ 7	Salt gel, gel, starch
5600' - TD	Brine Mud	9.6 - 11.4	10-15		**		+ 7	Salt gel, gel, starch

* Water flows may be encountered from 150' down to 850' with an almost certain flow at 850'.

Mud weights in excess of 11.0 ppg may be necessary.

** Before approx. 5750' the system should be pre-treated with 2.0# LCM per barrel and the mud weight should be 10.8 - 10.9 ppg.

000478

COMPANY: Schlumberger

FORMATION	DEPTH	TYPE LOG	INTERVAL
Greenhorn	2370'	DLL + Micro SFL-GR-CAL	Base surf. csg to TD.
Muddy	2969'	FDC-CNL-GR-CAL	4000' to TD.
Lierdon	4134'		
Tipper Ln	4378'		
Wmsden	4750'		
Wyer	4878'		
Watter	5032'		
Libbey Ls.	5328'		
Charles	5479'		
Greenpoint	5710'		
Charles "C" Ø	5815'		

TESTING AND CORING PROGRAM

DRILL STEM TESTING PROGRAMS

TESTING COMPANY: Max's Testing (Glendive)

Possible DST of top Charles "C" interval

CORING PROGRAM

CORING COMPANY:

NONE

SAMPLE AND DRILLING TIME PROCEDURE

PERSONNEL

NAME	POSITION	HOME PHONE	OFFICE PHONE
Ron Becker	Project Manager	406-652-3623	406-248-4330
	Mobile Phone:	406-259-8599	
Mike Walen	Project Geologist	406-652-2405	406-248-4330
Leo Heath	Project Engineer	406-656-9917	406-248-4330
	Mobile Phone	406-259-8620	
Joe Kagie	Drilling Engineer	406-656-2224	406-248-4330
	Mobile Phone	406-259-8845	
Walt Dyer	Foreman	406-768-2434	

MISCELLANEOUS

Roads and location inspected by Walt Dyer before MIRT.

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HISTORY

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: July 22, 1981

To: Well File
Denver

From: C.K. Curlee
Re: Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

On 8 July 1981 an on-site inspection was held for the Buckles "B" #1 well location. In attendance were the following:

Warren Korinek
Jim Lundberg
Bill Sherrodd
Leo Heath
Joe Kagee
C.K. Curlee

USGS, Environmental Scientist
BIA, Supervisory Soil Conservationist
Dirt Contractor
TXO, Billings
TXO, Billings
TXO, Denver

Major points of discussion during the on-site inspection included access, production facilities, pad layout, and potential H₂S hazard.

The access route was changed. The access will follow the recently upgraded road to the Buckles "A" #1. The new access road will continue east along the half section line (a disturbed plow line) and turn north to proceed past the "B" #2 location to the "B" #1 location (see attached map).

The production facilities were also changed. Separate production facilities will not be set at the pad for the Buckles "B" #1. Instead, a separate tank battery will be established at the location of the Buckles "A" #1 and pipelines carrying oil and produced water will be constructed to the Buckles "A" #1 location. Produced water will be injected into the salt water disposal well and oil will be stored in the new tank battery, separate from the tank battery for the Buckles "A" #1 lease. Only a treater will be required at the location of the Buckles "B" #1 with a minimum access road to the location.

The major change in the pad layout was the inclusion of a fresh water/wash water pit. This pit will be approximately 20' x 60' x 8' deep and will be constructed south of the reserve pit. A small ditch will be dug from the rig to this wash water pit. The pit will be unlined and will hold fresh water that is used to wash down the derrick and rig area. Use of the wash water pit to hold fresh water reduces the cost of drilling muds and other additives which are concentrated in the reserve pit. Since the pit will hold fresh water, the BIA representative had no concerns about the water seeping into the surrounding ground.

The potential for an H₂S hazard was briefly discussed. Leo Heath indicated that a small trace of H₂S was present in the oil bearing Charles River Formation. The crude hauler for the Buckles "A" #1 reported that the concentration in the oil was 4 ppm, considered sweet oil in the region. USGS, however, requested a revision to the APD package indicating that a contingency plan would be implemented in the event higher concentrations of H₂S are encountered.

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Page Two
July 22, 1981
Memo

The schedule for permit approval was discussed. USGS and BIA were made aware of our goal to commence construction about 15 July 1981. BIA stated that they would forward stipulations by close of business 8 July 1981. Korinek indicated that he would be in the office 10 July 1981 and that he would prepare the permit documents for signature on 13 July 1981. Based on this scheduling, the approved permit would be ready to be picked up either late on Monday, the 13th of July, or on Tuesday the 14th.

CKC

CKC

CKC/BS
cc/Leo Heath

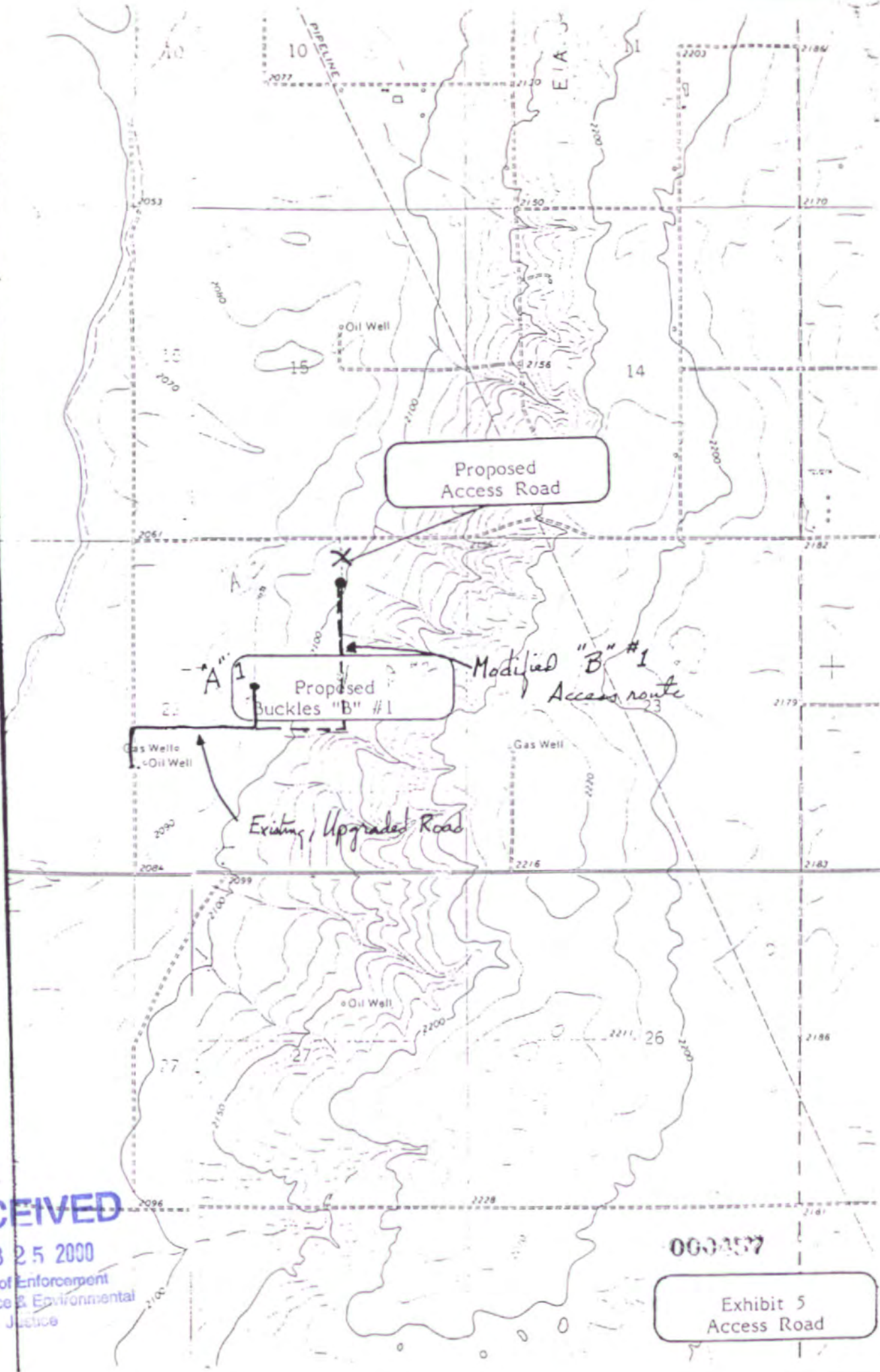
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000457

Exhibit 5
Access Road

CIRCULATING A. F. E.

Please Process and Keep Moving

Route		Initial
1	Rutledge Canfield	<i>CE</i>
	Morgan, J.	
2	Carter, A.	<i>CE</i>
4	Hoglund	<i>CE</i>
5	Hutchison	<i>CE</i>
	Marr	
	DeRosia	
3	Benson	<i>WLB</i>
6	Nuttall	<i>WLB</i>
7	7 Roberts	<i>WLB</i>
	Engineering	<i>WLB</i>
97	File	<i>WLB</i>

Little
no

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000394

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date July 22, 1981

To: A. D. Carter, Jr. - Dallas

From: R. G. Becker - Billings

Operations Package

Re: Buckles "B" #1

Fast Poplar Prospect

Roosevelt County, Montana

Attached for your approval is the operations package for the Buckles "B" #1. This 6000' well should gain + 10 feet of structure over the recently drilled TXO Buckles "A" #1 and the 1970 Mesa Biere #1-22 in the Charles "C" porosity zone. The Mesa well, 4000' south of the proposed location, has flowed over 160 MBO along with a recorded 1.6 MBW. We estimate actual water production in excess of 6 MBW. Our Buckles "A" #1, 2000' southwest of the proposed location, gained three feet over the Mesa well at the top of the Charles, but was 2' low to the Mesa well in the porosity. Our latest test on the Buckles "A" #1 is 25 BOPD and 1065 BWPD at 450# FTP.

As shown on the attached maps, well control indicates about 10' of anticipated structure. Also attached is an overlay using seismic data acquired last week. It supports the anticipated structural advantage, predicting up to 30' of gain over Mesa's well.

Predicted economics, assuming 5' of structural gain and 25¢/Bbl water disposal costs into our existing water disposal well, are:

Drilling & Completion Costs	\$608,000
TXO Working Interest	100%
TXO Net Revenue Interest	83.33%
Gross Reserves	125 MBO H1
Initial Rate	50 BOPD, 1000 BWPD
Initial Oil Price	\$32.00
Success Probability Factor	80%
ROI	3.3:1
ROR	48%
Payout	28.4 months
Lease Costs	\$104,000

R. G. B.

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000395

RGB/blj
Attachments

W RECOMMENDATION MEMO

Date: July 21, 1981 Prospect Name: East Poplar
Recommended by: M. B. Walen Location: Sec. 22 Twp 28N Rge 51E
Well Name: Buckles "B" #1 County: Roosevelt State: Montana
Depth: 6000'
Primary Objective Zone: Charles "C" Oil X Gas

Reserves & Economics

Estimated Reserves: MMCF 125 MBO SPF: 80%

Reserve Method: Decline Curves

Reserve Parameters:

A: Bg:
h: RF:
φ: Sw:

Economic Evaluation: Price: \$32.00/bbl
DCFROR: 48%
ROI: 3.3:1
Payback: 28.4 mos.

Pipeline Delay: None Rate: -

Well Cost: P&A \$355,000 TXO Net \$355,000
Completed \$608,000 TXO Net \$608,000

Land

	<u>BPO</u>	<u>APO</u>
TXO Working Interest:	<u>100 %</u>	<u>100 %</u>
TXO Net Revenue Interest:	<u>83.33 %</u>	<u>83.33 %</u>
Land Cost: <u>\$104,000</u> Acres: <u>80</u> Gross <u>80</u> Net		

Comments:

Market: Marathon Distance to Pipeline Truck

Special Obligations:

Remarks:

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Compliance & Environmental
Justice

Signed: M. B. Walen 000396

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Compliance & Environmental
Justice

Project Name: Buckles B #1

Prepared By: RGB

Date: July 10, 1981

TKO INVESTMENT APPRAISAL PROCEDURE
Discounted Cash Flow (DCF) Worksheet
(Volume in MBO; Amounts in M\$)

Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PERIOD	Gross Volume Unit/Year	Net Volume Unit/Year	Price \$/Unit	Revenue	Tax	G&A Expense	Other	Fixed	Total	CASH OPERATING REVENUE	CAPITAL OUTLAYS	NET CASH FLOW	PRESENT VALUE AT 40%	PRESENT VALUE AT 50%	PRESENT VALUE AT 60%
0											826	(826)	(826)	(826)	
1	18.3	15.2	32.00	488.0	13.9	1.0		100	114.9	339.5	6	333.5	281.9		
2	17.4	14.5	35.00	507.1	14.5	1.0		105	120.5	351.8		351.8	212.4		
3	16.5	13.8	40.00	551.0	15.7	1.0		110	126.7	386.1		386.1	166.5		
4	15.7	13.1		522.5	14.9	1.0		116	131.9	355.4		355.4	109.5		
5	14.1	11.8		471.0	13.4	0.7			130.1	310.2		310.2	68.2		
6	12.0	10.0		400.0	11.4	0.7			128.1	247.4		247.4	38.9		
7	10.2	8.5		340.0	9.7	0.5			126.2	194.6		194.6	21.8		
8	8.7	7.2		288.0	8.2	0.4			124.6	148.7		148.7	11.9		
9	7.4	6.2		248.0	7.1	0.4			123.5	113.3		113.3	6.5		
10	4.7	3.9	✓	156.0	4.4	0.3		✓	56.0	91.0	(56)	147.0	6.0		
TOTAL	125.0									2538.0	776		97.6	-31.7	

Memo:

TKO Net Interest = 83.33%

Tax Rate = .028% sev, 9% NPT

G&A Expense Rate = \$.06/MBO

Other Variable Expense (Define):

Fixed is composed of:

a. OPEX

b. SWD

c.

Total Fixed Expense

DCF RATE OF RETURN = 48 PERCENT
ROI = 3.3:1
PAYBACK = 28.4 MONTHS

\$ Amount

10M\$/Yr.

250/Bbl x 1000 B/D

100 M\$/Yr., CSC 5%

List Initial
Capital Outlays:

Items	Amount
Drilling	355
Completion	153
Prod. Equipment	100
Acquisition	104
Subtotal Initial Capital Outlays:	712
List Additional Capital Outlays:	SPF 80% 114

Less Salvage Value: (50)
TOTAL CAPITAL OUTLAYS: 776

Working Capital (Invested in Yr.1 & recouped in last year of the project): Average Annual Revenue X Rate = Working Capital Outlay

345 x .018 = 6

000297

INTERSTATE ENGINEERING, INC.

P. O. Box 648
SIDNEY, MONTANA 59270

LETTER OF TRANSMITTAL

(406) 482-5617

TO T.X.O. Production Corporation
2705 Montana Ave., Suite 300
Billings, MT 59101

DATE	10/8/81	JOB NO.	81-2-247
ATTENTION	Leo Heath		
RE:	Section 22, T28N, R51E in Roosevelt County, Montana.		

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

- ☐ Shop drawings ☒ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
3	10/8/81		Buckles B#1, A, and Mesa Petrol oil well grade elevations

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

OCT 9 1981

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Enclosed find 3 copies of plat showing requested grade elevations of
Buckles B#1, Buckles A, and Mesa Petrol oil wells. Thanks.

RECEIVED

FEB 25 2009

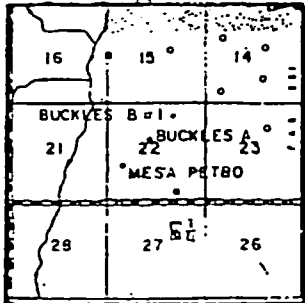
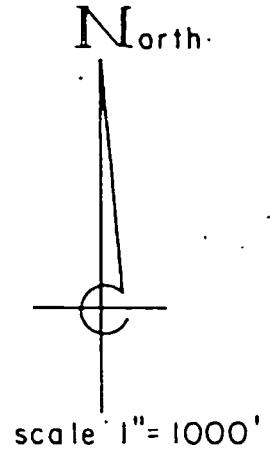
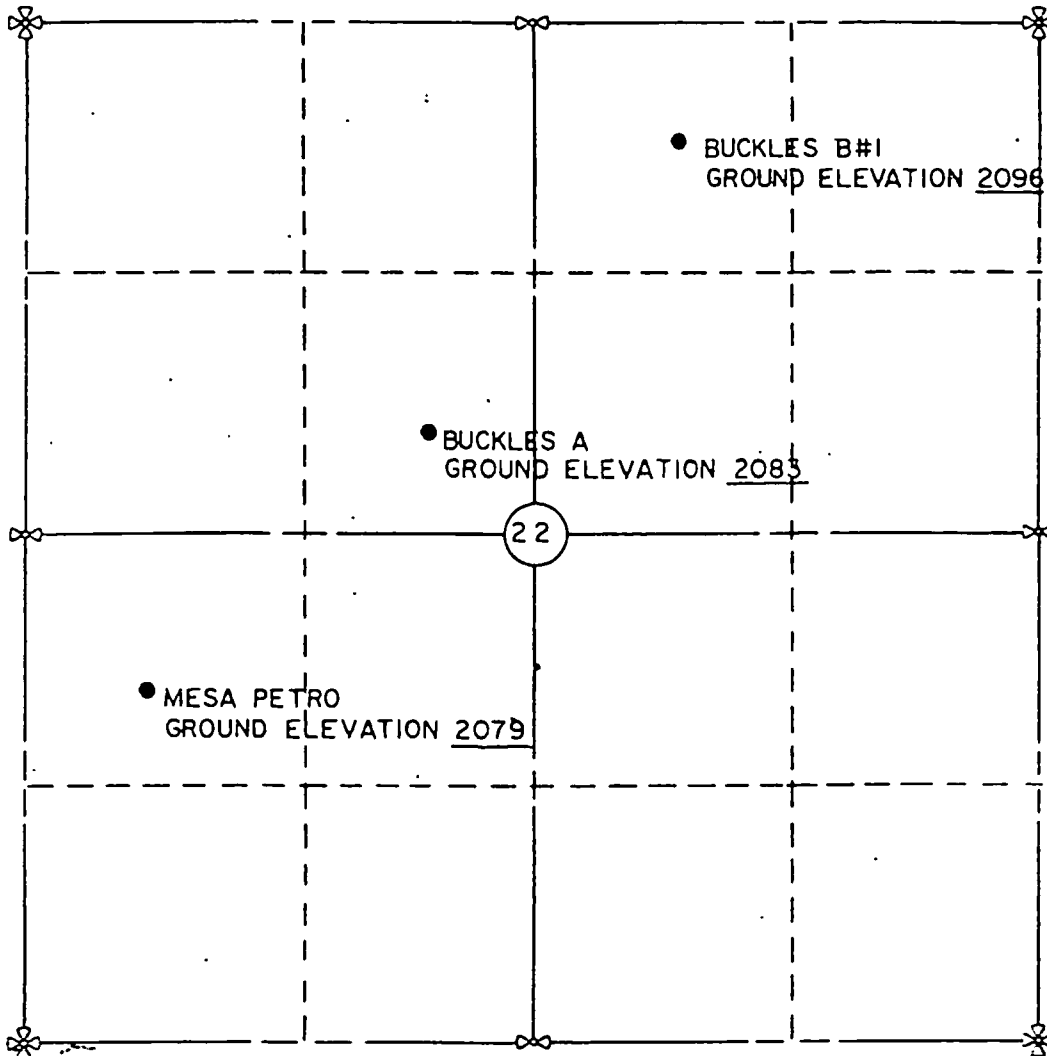
Office of Enforcement
Compliance & Environmental
Justice

000342

COPY TO _____

SIGNED: Susan Wagle

T.X.O. PRODUCTION CORPORATION
LOCATION AND ELEVATION PLAT
SECTION 22, T 28 N, R 51 E
ROOSEVELT COUNTY, MONTANA



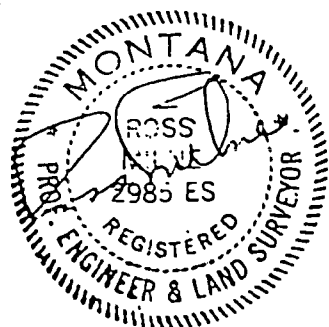
VICINITY MAP
SCALE: 1" = 2 MI.

Ground elevation at Buckles B#1 well is 2096.
Ground elevation at Buckles A well is 2083.
Ground elevation at Mesa Pero well is 2079.

Interstate Engineering, Inc. of Sidney, Montana as requested by Leo Heath of T.X.O. Production Corporation has determined the ground elevation at bore hole of Buckles B#1 oil well to be 2096; at given location of the NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of NW $\frac{1}{4}$, and ground elevation at bore hole of Buckles A oil well to be 2083; at given location of the SE $\frac{1}{4}$ of NW $\frac{1}{4}$, and ground elevation at bore hole of Mesa Petro well to be 2079 at given location of the NW $\frac{1}{4}$ of SW $\frac{1}{4}$ all in Section 22, Township 28 North, Range 51 East of the Principal Meridian Montana in Roosevelt County, Montana.

Registered Land Surveyor
Registration No. 2985

State of Montana
Date: 10/8/81

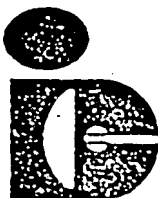


RECEIVED

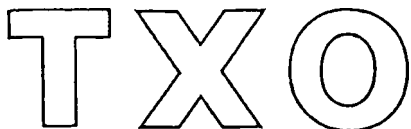
FEB 25 2000

000543

Office of Enforcement
Compliance & Environmental
Justice



INTERSTATE ENGINEERING, INC.
BOX 648 SIDNEY, MONTANA 59270




TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: Feb. 24, 1984

To: R. E. Dashner

From: P. A. Kriz

Re: Recommendation to P & A the
Buckles "A" #1, Buckles "B"
#1, and the Buckles SWD wells 
in Roosevelt Co., Montana

LEASE NAME:	Buckles "A" #1, "B" #1, and SWD #1
LEASE NUMBER:	46529, 92287, 7839
TXO WORKING INTEREST:	100%
PRESENT PRODUCTION:	Shut in
CUMULATIVE PRODUCTION:	8189
CUMULATIVE INVESTMENT:	1,524,295
CUMULATIVE NET INCOME:	-47,357

The Buckles "A" #1 and "B" #1 are 100% WI, Madison oil wells in the Popular Field in Roosevelt County, Montana. The Buckles "A" #1 was spudded on April 1, 1981 and was perforated at 5796' to 5800' in the Madison-Charles "C" zone. The initial test production on May 4, 1981 was 82 BOPD and 887 BOPD. The well had a strong water drive and produced large quantities of corrosive water. The Buckles SWD #1 well was drilled on May 13, 1981 to dispose the Buckles A #1's water production into the Judith River formation. The Buckles B #1 was spudded on August 11, 1981, no economic production was found and the well was temporarily abandoned and left as a possible injection well for the Buckles A #1.

The Buckles A #1 and SWD #1 have been plagued with numerous shut ins due to leaks in pipes caused by the corrosive water production. The salt water disposal well has pressurized to the point that further injection will probably cause leaks in the corrosion fatigued casing and allow communication to the surface. Surface communication was a problem while drilling the SWD well due to its shallow depth and would prove to be both difficult and costly to repair. Furthermore, the well is an Indian lease on the Ft. Peck Indian Reservation and surface leaks could lead to legal action against TXO.

000288

Plugging Recommendation
2/24/84 - Page 2

The Buckles A #1 was shut in on November 21, 1983 due to high discharge pressure to the SWD well. The well was producing approximately 6 BOPD and 900 BWPD when it was shut in. At the present production rate the well can not cover any additional expenditures that would come from drilling another injection well or converting the Buckles B #1 to a disposal well.

Uphole potentials were evaluated with geology and no additional prospective zones were found. Furthermore, based on the history of the producing zone, further stimulation on workover would not enhance production. At the present production decline the Buckles A #1 is only 3 months from its economic limit of 3.4 BOPD.

In view of the facts presented, it is recommended that the Buckles A #1, Buckles B #1, and the Buckles SWD #1 be plugged and abandoned. The cost for plugging the wells would be approximately \$53,400. The salvage value that is expected to be recovered is approximately \$65,300.

Please review and advise on the plugging of the Buckles A #1, B #1, and SWD #1 wells.

PAK/ja

PAK
P. A. K.

000289



TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: Feb. 24, 1984

To: R. E. Dashner

From: P. A. Kriz

Re: Recommendation to P & A the
Buckles "A" #1, Buckles "B"
#1, and the Buckles SWD wells
in Roosevelt Co., Montana

LEASE NAME: Buckles "A" #1, "B" #1, and SWD #1
LEASE NUMBER: 46529, 92287, 7839
TXO WORKING INTEREST: 100%
PRESENT PRODUCTION: Shut in
CUMULATIVE PRODUCTION: 8189
CUMULATIVE INVESTMENT: 1,524,295
CUMULATIVE NET INCOME: -47,357

The Buckles "A" #1 and "B" #1 are 100% WI, Madison oil wells in the Popular Field in Roosevelt County, Montana. The Buckles "A" #1 was spudded on April 1, 1981 and was perforated at 5796' to 5800' in the Madison-Charles "C" zone. The initial test production on May 4, 1981 was 82 BOPD and 887 BOPD. The well had a strong water drive and produced large quantities of corrosive water. The Buckles SWD #1 well was drilled on May 13, 1981 to dispose the Buckles A #1's water production into the Judith River formation. The Buckles B #1 was spudded on August 11, 1981, no economic production was found and the well was temporarily abandoned and left as a possible injection well for the Buckles A #1.

The Buckles A #1 and SWD #1 have been plagued with numerous shut ins due to leaks in pipes caused by the corrosive water production. The salt water disposal well has pressurized to the point that further injection will probably cause leaks in the corrosion fatigued casing and allow communication to the surface. Surface communication was a problem while drilling the SWD well due to its shallow depth and would prove to be both difficult and costly to repair. Furthermore, the well is an Indian lease on the Ft. Peck Indian Reservation and surface leaks could lead to legal action against TXO.

RECEIVED
OFFICE OF THE ATTORNEY GENERAL
COURT OF THE STATE OF MONTANA
JAN 25 1984

000288

Plugging Recommendation
2/24/84 - Page 2

The Buckles A #1 was shut in on November 21, 1983 due to high discharge pressure to the SWD well. The well was producing approximately 6 BOPD and 900 BWPB when it was shut in. At the present production rate the well can not cover any additional expenditures that would come from drilling another injection well or converting the Buckles B #1 to a disposal well.

Uphole potentials were evaluated with geology and no additional prospective zones were found. Furthermore, based on the history of the producing zone, further stimulation on workover would not enhance production. At the present production decline the Buckles A #1 is only 3 months from its economic limit of 3.4 BOPD.

In view of the facts presented, it is recommended that the Buckles A #1, Buckles B #1, and the Buckles SWD #1 be plugged and abandoned. The cost for plugging the wells would be approximately \$53,400. The salvage value that is expected to be recovered is approximately \$65,300.

Please review and advise on the plugging of the Buckles A #1, B #1, and SWD #1 wells.

PAK/ja

PAK
P. A. K.

RECEIVED
FEB 24 1984
OFFICE OF THE
COMMISSIONER OF REVENUE
JAN 23

000289

TXO

TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

June 1, 1984

MONTANA BOARD OF OIL & GAS CONSERVATION
2535 St. Johns Avenue
Billings, Montana 59102

RE: Buckles "A" #1, "B" #1, "SWD" #1
Section 22, T28N-R51E
Roosevelt County, Montana

Dear Sirs:

Attached please find Sundry Notices and Well History's on the above referenced wells.

Please call me at this office if you have any questions about these wells.

Sincerely,

TXO PRODUCTION CORP.

M. David Clouatre
M. David Clouatre
Drilling & Production Engineer

Encl.
MDC/tlw

RECEIVED

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

A SUBSIDIARY OF TEXAS
OIL & GAS CORP.
000392

MARATHON	Drilled	Depth	T/IR	S (1/4)	Injection Zone	Production Zone
Buckles A-1	1981	5937'	28N/S1E	22 SE NW	1980 NL/1980 WL	M _c
hole 12 1/4" 1220 8 3/8" casing 7 1/2" 150' x 150' (all steel) hole 7 1/2" 5933' 5 1/2" 120' x 1440' x 2-24-84 TXO Production (u.p. inter-office memo states "A-1", "B-1" and "SWD" should be P+Ad due to comp. ... worry about potential legal action for contamination.						
"SWD" #1	1981	960 (K _{gr} ^e T ₁₀)	28N/S1E	22 SE NW	803 NL/1853 WL	K _j
B-1		5840'	28N/S1E	22 SE NW	600 NL/1980 WL	

SPILLS

MARATHON

10-19-82

7:15am

28N/SIE 22 NIE NW' Buckles "A" 1

200 bbl crude spilled vacuumed into truck immediately
190 bbl recovered contained inside diked area

PERMIT
APPLICATIONS

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

(SUBMIT IN QUADRUPPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

Notice of Intention to Drill	XX	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

July 7, 1981

Following is a {notice of intention to do work} on land {owned} described as follows:
report of work done {leased}

LEASE Buckles "B"

MONTANA
(State)

Roosevelt

(County)

E. Poplar

(Field)

Well No. 1 CNWE Sec. 22 T28N R51E MPM
(m. sec.) (Township) (Range) (Meridian)

The well is located 660 ft. from N line and 1980 ft. from E line of Sec. 22
XX XX

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2106' GL

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULTCores Required if Taken
NO drill cutting samples required

1. Drill 12 1/4" hole to + 1200', Set 8 5/8", 24#, K-55 casing and cement to surface.
2. Drill 7 7/8" hole to + 6000'. Log, evaluate, and if warranted, set 5 1/2" 15.5# & 17#, K-55 casing at + 6000' and cement to above the Dakota formation in one stage.
3. Perforate Mission Canyon and complete as a single oil well. If necessary, stimulate with 500 gallons 15% HCL acid.

FILING WITH THE COMMISSION ALL LOGS,
REPORTS, SURVEYS AND ANALYSES MADE
OR RUN IS REQUIRED IN ACCORDANCE WITH
RULE NO. 230.

SALTWATER PITS SHALL BE IMPERMEABLE

Approved subject to conditions on reverse of form

Date JUL 16 1981

ORIGINAL SIGNED BY

By CHARLES G. MAIO, Petroleum Geologist
District Office Agent

Title

Company Texas Oil & Gas Corp.

By H.J. Kagie

Title Drilling Engineer

Address 2705 Montana Ave. Suite 300
Billings, Montana 59101BOARD USE ONLY
API WELL NUMBER

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDDED OR EXTENSION REQUESTED

OVER

000402

(SUBMIT IN QUADRUPLICATE)

TO

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

OIL & GAS COM.
STATE OF MONT.
HELENA

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
		Change of Operator Name	XX

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

October 14, 1981

Following is a notice of intention to do work on land owned leased described as follows:

LEASE.....Buckles "B"

.....MONTANA.....Roosevelt.....E. Poplar
.....(State).....(County).....(Field)

Well No. B-1 CNNWE Sec. 22 T28N R51E MPM
(m. sec.) (Township) (Range) (Meridian)

The well is located660..... ft. from { ~~N~~ } line and1980..... ft. from { ~~E~~ } line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2106' GL

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK RESULT

Effective September 1, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp."

Approved subject to conditions on reverse of form

Date.....

By Dee Rickman, Executive Secretary
District Office Agent

Company.....TXO Production Corp.

By.....Leo A. Heath

Title Project Engineer

2705 Montana Avenue Suite 300

Address.....Billings, MT 59101

BOARD USE ONLY
API WELL NUMBER

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF
APPROVAL IF WELL NOT SPUDED OR EXTENSION REQUESTED

OVER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR

U. S. Geological Survey

Suite 300, 2705 Montana Avenue, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface
660' FNL, 1980' FEL

At proposed prod. zone

JUN 22 1981

Billings, Montana

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0256-5439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Austin R. Buckles

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Buckles "B"

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

East Poplar Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 22-T28N-R51E

13. STATE

Montana

WORK WILL START*

1981

14. DIST

Ap

15. DIS-
LOC
PRO
(A)

16. DIS-
TO
OR

21. ELEV

210

23.

1. Reserve pit will be lined.
2. In case of dry hole, all restoration will be completed within 60 days.
3. In case of production, all disturbed areas not needed for production will be restored within 60 days.
4. Topsoil will be piled separately and not used for other purposes.
5. Access road will be from the south and joining existing road at A-1 site.
6. Archeological clearance is not needed in this area.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<u>12 1/4"</u>	<u>8 5/8"</u>	<u>24# New</u>	<u>1200'</u>	<u>Circulate to surface</u>
<u>7 7/8"</u>	<u>5 1/2"</u>	<u>15.5# & 17#</u>	<u>6000'</u>	<u>700 sacks</u>

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Ron Becker

TITLE Project Manager

DATE 6-22-81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY: SEE ATTACHED

ACTING DISTRICT SUPERVISOR
TITLE RECEIVED

DATE 7/13/81

ANY FLARING OR VENTING OF
GAS SUBJECT TO NTL 4-A
DATED 1/1/80

000408

FEB 25 2000
Office of Enforcement
Compliance & Environmental
Justice

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company _____ Well No. _____

Location _____ Lease No. _____

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended for more than 30 days, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Engineer must be notified at least 48 hours in advance of the plugging of the well, in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a

RECEIVED

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

000409

6. You or your authorized representative should inspect the abandoned location prior to notification to this office by form 9-331 that it is ready for inspection, and note especially:

- (a) That the regulation dry-hole marker bears the correct legend as required in item 3.
- (b) That rathole and mousehole are filled, not just bridged, and pits are filled and leveled.
- (c) That all material and junk are gone. This includes deadmen protruding above the level ground surface.
- (d) That reseeding or other required restoration work has been completed.

7. The U.S. Geological Survey district office address is:

Conservation Division, P.O. Box 2550, Billings, MT 59103

Dist. Engr.	Thomas P. Richmond	Phone	657-6367
Asst. Engr.		Home Phone	656-0357
		Home Phone	

8. The BLM contact man is:

Phone _____ (home)
Phone _____ (office)

RECEIVED

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

000-110

The U. S. Geological Survey District office address and contacts are:

Address: Conservation Division, P.O. Box 2550, Billings, MT 59103

Office Phone: 657-6367

District Engineer Thomas P. Richmond

Home Phone: 656-0357

Asst. Dist. Engineer _____

Home Phone: _____

7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil, and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed for prior approval of the District Engineer, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Engineer's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact the Surface Management Agency 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, future operations will require a new application be filed for approval.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. _____

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Compliance & Environmental
Justice

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

000411

follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the District Engineer within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Engineer's office on a frequency and form or method as may be acceptable to the District Engineer.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed in duplicate directly with the U. S. Geological Survey Area office, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Engineer. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6 and prior approval by the District Engineer.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) (are not) involved at this location. Accordingly, you (must) (need not) notify this office and the Surface Management Agency at least 24 hours prior to commencing field operations to allow this office and/or the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

The Surface Management Agency contact is: _____

Office Phone: _____, Home Phone: _____

City: _____, State: _____

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Compliance & Environmental
Justice

000432

CONDITIONS OF APPROVAL FOR WELL ABANDONMENT

Company _____ Location _____

Well No. _____ Lease No. _____

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

1. This office should be notified sufficiently in advance of actual plugging work so that a representative may have an opportunity to witness the operation.
2. Upon completion of approved plugging, erect the regulation marker in accordance with 30 CFR 221.22 and clean up the location. The marker should not be less than 4 inches in diameter and extend approximately 4 feet above general ground level. Heap up the dirt around the base of the marker about 18 inches to take care of any settling of the cellar. The top of the marker must be closed or capped. Pits must be fenced unless approved otherwise by the District Engineer.
3. The following minimum information shall be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:
"Fed" or "Ind", as applicable.
"Well number, location by $\frac{1}{4}$ $\frac{1}{4}$ section, township and range."
4. Within 15 days after well bore plugging operations are completed, form 9-331 (Subsequent Report of Abandonment) must be filed showing location of plugs, amount of cement in each, amount of casing left in hole, and status of surface restoration. If a temporary delay in removal of equipment or surface cleanup is deemed necessary and acceptable to this office, so note on this report and notify this office when such work has been completed to your satisfaction. This final abandonment report will not be approved until a physical inspection by this office and the surface management agency finds the well site in satisfactory condition.
5. If not previously filed, submit in duplicate Well Completion or Recompletion Report and Log (form 9-330), well history, electric logs, and other surveys, and if taken, core analysis and water analysis. These reports must also be filed within 15 days after completion of plugging operations.

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Justice

000413

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐ JUL 13 1981
2. NAME OF OPERATOR
Texas Oil & Gas Corp. Billings, Montana
3. ADDRESS OF OPERATOR
Suite 300, 2705 Montana Ave., Billings, MT 59102
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL, 1980' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Change Plans ☐

SUBSEQUENT REPORT OF:

- ☐
☐
☐
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☐

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The following change is made in the subsurface plan (9-331C Addendum) of the APD package:

9. ABNORMAL CONDITIONS:

- B. Trace amounts of H₂S gas may be encountered in association with Charles River Formation oil. In the event hazardous concentrations are encountered, an H₂S safety program, consistent with industry standards, will be implemented. The program would include such features as signs, use of respirators, proper detection systems, etc.

Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct

SIGNED Charles E. Curley Jr. TITLE Project Engineer DATE July 9, 1981

APPROVED BY Charles E. Curley Jr.
CONDITIONS OF APPROVAL, IF ANY:

ACTING DISTRICT SUPERVISOR DATE 7/20/81

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FEB 25 2000

Form Approved.
Budget Bureau No. 42-R1424

5. LEASE FT. BUCKLE AL.
14-20-0258-6439
Compliance & Environmental
6. IF INDIAN, ALIEN, OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Buckles "B"
9. WELL NO.
#1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22-T18N-R51E
12. COUNTY OR PARISH Roosevelt 13. STATE Montana
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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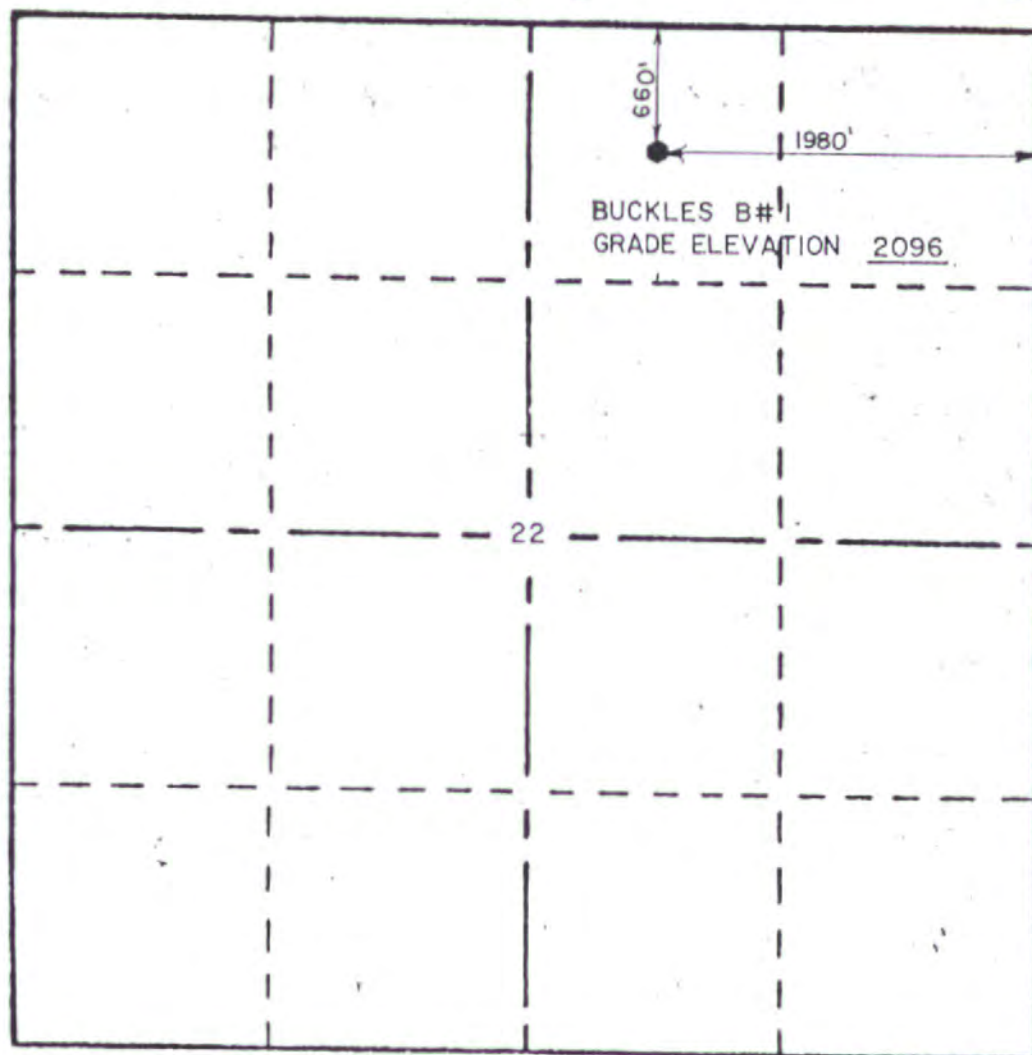
Set @

Office of Enforcement
Compliance & Environmental
Justice

000401

T.X.O. PRODUCTION CORPORATION
LOCATION AND ELEVATION PLAT
 NW NE SECTION 22, T28 N, R 51 E
 ROOSEVELT COUNTY, MONTANA
 R 51 E

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 Office of Enforcement
 Compliance & Environmental
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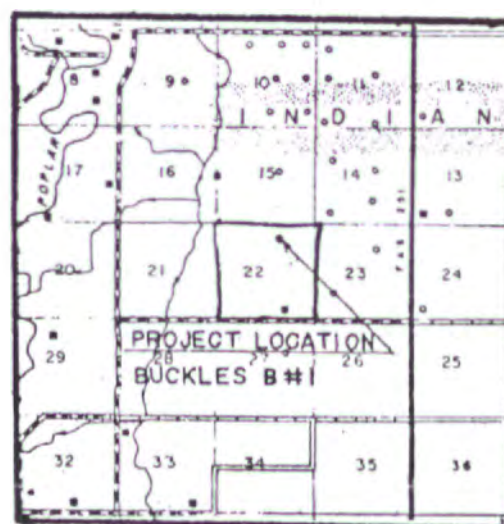
N

SCALE: 1" = 1000'

TEXAS OIL & GAS CORP.
 BILLINGS DISTRICT
 OCT 2 1981

Grade Elevation at well is 2096.

Interstate Engineering, Inc. of Sidney, Montana as requested by Leo Heath of T.X.O. Production Corporation has determined the grade elevation at bore hole of Buckles B #1 oil well to be 2096; at the given location of 660' F.N.L. and 1980' F.E.L., in Section 22, Township 28 North, Range 51 East of the Principal Meridian Montana in Roosevelt County, Montana.



VICINITY MAP
 SCALE: 1" = 2 Mi.

SURVEYOR'S CERTIFICATE

I hereby certify that this survey and plat attached hereto is a true and correct representation showing the location of

Dated: 9-30-81



Registered Land Surveyor
 Registration No. 2985 E.S.
 State of Montana

000400

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐ other ☐
well well well
2. NAME OF OPERATOR
Texas Oil & Gas Corp.
3. ADDRESS OF OPERATOR 59102
Suite 300, 2705 Montana Ave., Billings, MT
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL, 1980' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) Setting surface casing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 12 1/4" hole to 1206' KB. Ran 26 jts 8 5/8", 24#, K-55, ST&C casing, set @ 1146', with Lynes ECP packer @ 684'. Cemented to surface w/760 sx Class "G" and set packer.

5. LEASE FT PECK AL.
14-20-0256-5439
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Buckles "B"
9. WELL NO.
#1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22-T18N-R51E
12. COUNTY OR PARISH 13. STATE
Roosevelt Montana
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GL, 2118' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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Office of Enforcement
Compliance & Environmental
Justice

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Leo A. Heath TITLE Project Engineer DATE August 14, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY SEP 4 1981

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐ other ☐
2. NAME OF OPERATOR
Texas Oil & Gas Corp.
3. ADDRESS OF OPERATOR 59101
2705 Montana Avenue, Ste. 300, Billings, MT
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
660' FNL, 1980' FEL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:
TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Setting production casing XX

SUBSEQUENT REPORT ON

U.S. Geological Survey
RECEIVED
AUG 27 1981
Billings, Montana

5. LEASE FT PECK AL
14-20-0256-5439
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Buckles "B"
9. WELL NO.
#1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22-T18N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
2-22-18-51
15. ELEVATIONS (SHOW DF, KOB, AND WD)
2106' GL, 2118' KB

NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 7 7/8" hole to 5913'. Ran DLL-MSF log from 5905' - 1178' (loggers measurements) and CNL-FDC Log from 5905' - 4600'. Ran and set 141 jts 4 1/2" 10.5# & 11.6#, K-55, ST&C casing at 5913' with float collar at 5864' and stage cementing collar at 5398'. Cemented with 485 sacks 65/35 pozmix cement and 225 class "G" cement in two stages. Released rig 8:00 a.m. 8-24-81.

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Compliance & Environmental
Justice

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Kagie TITLE Drilling Engineer DATE August 24, 1981

(This space for Federal or State office use)

APPROVED BY Charles E. Clark ACTING DISTRICT SUPERVISOR DATE 9/3/81
CONDITIONS OF APPROVAL, IF ANY:

000405

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 660' FNL & 1980' FEL (NW NE)

AT TOP PROD. INTERVAL: Same

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☒

(other)

SUBSEQUENT REPORT OF:

☐
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☐
☐

5. LEASE

14-20-0256-5439 Ft. Peck

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Austin R. Buckles

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Buckles

9. WELL NO.

"B" #1

10. FIELD OR WILDCAT NAME

East Poplar Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 22, T28N-R51E

12. COUNTY OR PARISH

Roosevelt

13. STATE

Montana

14. API NO.

25-085-21313

15. ELEVATIONS (SHOW DF, KDB, AND WD)

2106' GL, 2118' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Due to uneconomic production, TXO Production Corp. proposes to P&A the above well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

Set 35 sxs cmt plug above perfs
Set cmt plug 50' in & 50' out of prod. csg stub.
Set cmt plug 50' in & 50' out of surf csg shoe.
Set cmt plug 25' above & 25' below Judith River.
Set 15 sxs cmt plug @ surface.

Verbal approval was given by Don Miller at the BLM's Miles City office on May 21, 1984.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED M. David Cloutre TITLE Drlg. & Prod. Engineer DATE June 1, 1984

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

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TITLE ADM-MINERALS

DATE

JUN 13 1984

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

See Instructions on Reverse Side

000389

P & A - MONTANA

BUCKLES "B" #1
Roosevelt Co./22-28N-51E



- 05/23/84 5840' PBDT, dig out valves. RU Halliburton. Pump 40 bbls of produced wtr dn tbg. Had 1800# @ 4 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. FLush w/ 23 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 23.5 bbls total @ end of squeeze. SWI w/ 1000# on tbg. Wait 4 hrs. TP was 1250#. Bled tbg press to 500#. SIFN. DW: 2050. CW: 2050.
- 05/24/84 5840' PBDT, SITP 760#, SICP 790#. Open annulus & bled off press. Tbg press bled off @ same time. Had no indication of fluid entry. MI & RU N. L. Well Service Rig #169. ND wellhead. NU BOP. TOOH w/ 186 jts 2-3/8", 4.7#, J-55, EUE tbg, model "R" single grip pkr, 1 jt 2-3/8" tbg. TIH w/ tbg. Spot 35 sxs Cl "G" cmt from 5790-5340'. TOOH & LD 25 jts tbg. SWI. SDFN. DW: 4035. CW: 6085.
- 05/26/84 5840' PBDT, pull csg out of slips. NU BOP. RU Wisco csg crew. LD 4000' of 4-1/2" csg. RD csg crew. TIH w/ 2-3/8" tbg to 2450'. RU Halliburton. Pump 40 sxs Cl "G" cmt from 2450-2350'. TOOH & LD tbg to 1200'. Pump 35 sxs cmt from 1200-1100'. TOOH & LD tbg to 950'. Pump 50 sxs cmt from 950-800'. TOOH & LD tbg. Pump 15 sxs cmt @ surf. RD Halliburton. ND BOP. RD N.L. & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 14,055. CW: 28,337.

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Office of Enforcement
Compliance & Environmental
Justice

000390

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
TXO Production Corp.
3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL & 1980' FEL (NW NE)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

- ☐
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☐
☐
☐
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5. LEASE
24-20-0256-5439 Ft. Peck
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"B" #1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
25-085-21313
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GL, 2118' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

of the plugging operations

CONDITIONS OF APPROVAL:

Please be advised that final abandonment shall not be approved until the surface reclamation work required by the approved drilling permit or approved subsequent report of abandonment notice has been completed to the satisfaction of the surface management agency. Upon completion of reclamation work, the lessee or operator shall notify the Bureau of Land Management, Miles City District, Division of Minerals via Sundry Notice (form 3160-5) when the location is ready for inspection as per Operating Order # 1, Section V. Bond liability for the location shall not be terminated until approval of final abandonment by the Miles City BLM.

SIGNED M. David Cloutre Title Min. & Prod. Engineer Date June 1, 1984

(This space for Federal or State office use)

APPROVED BY RECEIVED
CONDITIONS OF APPROVAL

TITLE ADM-MINERALS DATE JUN 13 1984

FEB 25 2000
Office of Enforcement
Compliance & Environmental
Justice

*See Instructions on Reverse Side

000391

U. S. Geological Survey
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JUN 22 1981

Billings, Montana

TEXAS OIL & GAS CORP.
MULTIPOINT SURFACE USE AND OPERATIONS PLAN

DATE: June 18, 1981

WELL NAME: Buckles "B" #1

LOCATION: 660' FNL, 1980' FEL, Section 22-T28N-R51E, Roosevelt Co., Montana

1. EXISTING ROADS

- A. Proposed well site as staked. Refer to Exhibit 2. The well has been staked 660' FNL and 1980' FEL of Section 22-T28N-R51E.
- B. Route and distance from nearest town or locatable reference point to where proposed access route leaves main road: From Poplar, east on Highway 2 approximately 4.5-miles to Flaxville blacktop road. Turn north, proceed 4.0 miles to section road. Turn west, proceed 2.0 miles to section road. Turn north for 1 mile to an intersection. Turn right and proceed 0.62 miles to the proposed access road.
- C. Access route to location color coded in red and labeled. Refer to Exhibit 3.
- D. For development well, all existing roads within one mile color coded in yellow. Refer to Exhibit 4.
- E. Plans for improvement and maintenance of existing roads: The roads leading to the access road are well traveled. The road from Highway 2 is a blacktop county road. The section roads are graded, gravelled and well traveled. Only the access road will require any maintenance. During wet periods, some maintenance may be required to allow travel by drilling rigs and well service vehicles. During dry periods, wetting the access road may be required to control dust.

2. PLANNED ACCESS ROAD

Show all necessary roads to be constructed or reconstructed: An access road approximately 0.1 mile long will be constructed from the north section line of Section 22-T28N-R51E. The road will proceed due south to the drill site. The road will be 18-20 feet wide, with minimal grade. No drainages will be crossed. If the well is commercially productive, the road will be bar-ditched and crowned to facilitate drainage. See Exhibit 5.

3. LOCATION OF EXISTING WELLS

Exhibit 6 is a one-mile radius locating and identifying the following:

- A. Water Wells - None
- B. Abandoned Wells - Murphy Oil Unit #72, Sec. 22-T28N-R51E

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Justice

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JUN 22 1981

Billings, Montana

- C. Temporarily Abandoned Wells - None
- D. Disposal Wells - None
- E. Drilling Wells - None
- F. Producing Wells - Mesa 1-22 Biere, Sec. 22-T28N-R51E
 - Murphy Oil Unit #22, Sec. 14-T28N-R51E
 - Murphy Oil Unit #55, Sec. 23-T28N-R51E
 - Murphy Oil Unit #32, Sec. 15-T28N-R51E
 - TXO Buckles "A" #1, Sec. 22-T28N-R51E
- G. Shut-In Wells - None
- H. Injection Wells - Mesa, Sec. 22-T28N-R51E
 - TXO Buckles "A" #1 Injection Well, Sec. 22-T28N-R51E
- I. Monitoring or Observation Wells for Other Reasons - None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Exhibit 6 is a one-mile radius locating the following existing facilities owned by the lessee/operator:
 - 1. Tank Batteries - Buckles "A" #1, Sec. 22-T28N-R51E
 - 2. Production Facilities - Buckles "A" #1, Sec. 22-T28N-R51E
 - 3. Oil Gathering Lines - None
 - 4. Gas Gathering Lines - None
 - 5. Injection Lines - None
 - 6. Disposal Lines - None
- B. If new facilities are contemplated, in the event of production show:
 - 1. Proposed location and attendant lines in relation to the well pad. Refer to Exhibit 7.
 - 2. Dimensions of facilities. Refer to Exhibit 7.
 - 3. Construction methods and materials: Water production will be contained in a bar production pit according to NTL-2B specifications. A production unit will be set. All connection work will be done by an oilfield service company using standard oilfield materials.
 - 4. Protective devices and measures to protect livestock and wildlife: The water production pit will be fenced and flagged to protect animals.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Location and type of water supply: Water for drilling purposes will be purchased from a commercial water hauler and hauled from Plentywood, Montana.
- B. Method of transporting water: Water will be transported via truck over the access route described in Section 1B of the MSUOP. No new roads will be required.
- C. If water well is to be drilled, so state: No water well is contemplated.

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Billings, Montana

6. SOURCES OF CONSTRUCTION MATERIALS

- A. Show information either on map or by written description: It is not anticipated that any materials for construction will be required beyond materials from the minimal cut on the location.
- B. Identify if from Federal or Indian Land: The surface is owned by Austin R. Buckles.
- C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used: None to be transported.
- D. Show any needed access roads crossing Federal or Indian lands. Refer to Exhibit 5.

7. METHODS OF HANDLING WASTE DISPOSAL

- A. Cuttings will be separated by screen and gravity and contained in the reserve pit and subsequently covered when the pit is filled.
- B. Drilling fluids to be contained in the reserve pit and allowed to evaporate prior to filling.
- C. Produced fluids will be contained in the reserve pit and allowed to evaporate prior to filling.
- D. Sewage - Portable toilet will be provided.
- E. Garbage will be placed in a trash pit, fenced and covered with a small mesh wire fence for burning and burial after completion of the well.
- F. Statement regarding proper cleanup when rig moves out. When the rig moves out, all trash and surface refuse will be disposed of by burial in the trash pit or by removal from the location. All pits will be filled after drying and all areas restored as under Item #10.

8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: None planned.

9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross-section and plan view of drill pad with cuts and fills: Refer to Exhibits 8 and 9.
- B. Location of mud tank, reserve pit, burn pit, trash pit, pipe racks and living facilities: Refer to Exhibit 10.
- C. Rig orientation, parking area: Refer to Exhibit 10.
- D. Statement regarding pit lining: The reserve pit will be lined with plastic for drilling operations.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Temp abandoned

2. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

3. NAME OF OPERATOR

TXO Production Corp.

4. ADDRESS OF OPERATOR

2705 Montana Avenue, Suite 300, Billings, MT 59101

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' FNL, 1980' FEL

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

DATE ISSUED

7-13-81

6. LEASE DESIGNATION AND SERIAL NO.

14-20-0256-5439

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

Austin R. Buckles

8. UNIT AGREEMENT NAME

N/A

9. FARM OR LEASE NAME

Buckles 'B'

10. WELL NO.

#1

11. FIELD AND POOL, OR WILDCAT

East Poplar

12. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 22, T28N, R51E

13. COUNTY OR PARISH

Roosevelt

14. STATE

Montana

15. DATE SPUNDED 8-11-81 16. DATE T.D. REACHED 8-21-81 17. DATE COMPL. (Ready to prod.) 10-19-81 18. ELEVATIONS (OF. RKB, RT, GR, ETC.)* 2106 GR 19. ELEV. CASINGHEAD 2106'

20. TOTAL DEPTH, MD & TVD 5913' 21. PLUG, BACK T.D., MD & TVD 5835' 22. IF MULTIPLE COMPL., HOW MANY* Single 23. INTERVALS DRILLED BY 0-5913' 24. ROTARY TOOLS 25. CABLE TOOLS

26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5802-5804 Charles 'C'

27. WAS DIRECTIONAL SURVEY MADE

None

28. TYPE ELECTRIC AND OTHER LOGS RUN

GR-DLL-MSFL, GR-CNL-FDC-CAL

29. WAS WELL CORED

NO

30. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	1146	12-1/4"	760 sx	None
4-1/2"	10.5 & 11.6	5913	7-7/8"	585 sx	None

31. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

32. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

33. PERFORATION RECORD (Interval, size and number)

5806 - 5808' w/2 JSPF
5802 - 5804' w/2 JSPF

34. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5806-5808'	200 gal acid
5806-5808'	Squeezed w/185 sx cmt.
5802-5804'	200 gal acid

35. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
9-6-81		Flowing				Shut in	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-18-81	24	23/64"	→	6	TSTM	622	TSTM
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—EDL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
200	pkf.	→				39.6°	

36. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

37. TEST WITNESSED BY

38. LIST OF ATTACHMENTS

39. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Ter A. Heath

TITLE

Project Engineer

DATE

10-30-81

*(See Instructions and Spaces for Additional Data on Reverse Side)

000385

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

87. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

39.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH

OPERATIONAL SUMMARY
AND
GEOLOGICAL WELL HISTORY

TEXAS OIL AND GAS CORP.
Buckles "B" #1
C NW NE Section 22-28N-51E
(660' Fnl - 1980' - Fe1)
Roosevelt County, Montana

TEAGUE GEOLOGICAL, INC.
147 Main Street
Shelby, Montana
Carter Stewart, Geologist

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RESUME

Spud Date:	August 11, 1981
Completion Date:	August 23, 1981 (Ran 4½" production casing)
Status:	Probable Charles "C" Zone Oil Well (W.O.C.T.)
Elevation:	2106' G.L. 2119' K.B.
Total Depth:	5920' Driller 5905' Logger
Casing:	8 5/8", 24#/ft., 26 joints set @1149' K.B. w/700 sx 4½", 19 joints, 11.6#/ft. 122 jts. 10.5#/ft. set at 5910' KB w/720 sx
Contractor:	Bird Drilling Company, Ltd. Rig No. 5
Type Rig:	National 370
Type Mud Pumps:	Emsco DB 550 (16"x5½") Emsco D375 (14"x5½")
Mud Program:	Chemical and Gel (salt mud)
Hole Size:	12½" (0-1210') sfc; 7 7/8" (1210'-5920') Main
Size Drill Pipe:	4½" X-hole 4½" O.D. x 2½" I.D.
Size Drill Collars:	4½" h-90 6½" O.D. x 2½" I.D.
No. Drill Collars:	19 (590')
Sample Interval:	30' (5000;-5300') 10' (5300'-5820')
Sample Quality:	Fair
Cores:	None
Drill Stem Tests:	None

SAMPLE DISTRIBUTION

Texas Oil and Gas Corporation, 2705 Montana Ave., Ste #300, Billings, Montana 59101
Montana Oil and Gas Commission, 2385 St. Johns Ave., Billings, Montana 59102

LOGGING PROGRAM

Ran Schlumberger Logs: Simultaneous Compensated Neutron Formation Density from 5902' to 4600' - Simultaneous Dual Laterolog Micro-SFL from 0-5904'. Syberlook from 5500' tp 5905'

MUD SUMMARY

Salt Gel -----	353 sx	Starch -----	192 sx
Lime -----	6 sx	Preservative-----	1 sx
Salt -----	349 sx	Chromate -----	6 sx
Floculant -----	3 sx	Mica -----	50 sx
Cedar Fiber -----	18 sx		

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BIT RECORD

No.	Size	Make	Type	Interval	Footage	Hours	Jet Size	Serial No.
1A	12 1/4	HTC	OSC3-A	0-859	859	13 1/4	3(20)	RT
1B	12 1/4	HTC	OSC3-A	859-1210	381	3 1/4	3(20)	MV 089
1	7 7/8	STC	SDS	1210-3485	2275	13	3(16)	BC 814
2	7 7/8	STC	SDS	3485-3984	499	12 3/4	3(15)	BC 7562
3	7 7/8	STC	S84F	3984-5087	1103	71 1/4	3(15)	788809
4	7 7/8	HTC	J-22	5087-5890	804	61 1/4	3(15)	MF 732
5	7 7/8	STC	F-3	5890-5920	30	2	3(15)	BL 5411

VERTICAL HOLE DEVIATION SURVEYS

Depth	Degrees
1210	2
1800	1
2328	2
2981	1 1/2
3356	1 1/2
3485	1
3984	1
4611	1 1/2
5081	1
5567	1
5920	1

ELECTRICAL LOG FORMATION TOPS

<u>Cretaceous:</u>	Depth	Datum
Greenhorn	2366	- 247
Muddy	2958	- 839
<u>Jurassic:</u>		
Rierdon	4128	-2009
Piper Lime	4366	-2247
<u>Permian:</u>		
Amsden	4744	-2625
<u>Pennsylvanian:</u>		
Tyler	4864	-2745
<u>Mississippian:</u>		
Otter	4912	-2793
Kibby Sandstone	5174	-3055
Kibby Limestone	5306	-3187
Charles	5481	-3362
'B' Zone	5648	-3525
Greenpoint Anhydrite	5717	-3598
'C' Zone	5804	-3685
<u>Total Depth:</u>	5905	-3786

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DAILY ACTIVITY SUMMARY (CALENDAR DAYS)

August 8, 1981 Move in and rig up Bird Drilling Company, Ltd. Rig No. 5: Work on rig

August 9, 1981 Put draw works together and work on rig

August 10, 1981 Work on rig

August 11, 1981 Work on rig: Rig up to drill

August 12, 1981 Spud 12 $\frac{1}{4}$ " surface hole: drilled 12 $\frac{1}{4}$ " surface hole from 0-859': tripped for Bit 1B: drilled 12 $\frac{1}{4}$ " surface hole from 859'-1210': Ran 26 jts. 8 5/8" casing, 24#/ft set at 1149' KB; cemented with 700 sx 2% CaCl, type G cement; plugged down 10:30 p.m.: good returns

August 13, 1981 W.O.C.: nipple up: pressure up BOP: drilled out at 10:00 P.M.: drilled 7 7/8" hole from 1210' to 1612'

August 14, 1981 Drilled 7 7/8" hole from 1612-3485': Come out of hole; put on shock sub and Bit No. 2: drilled 7 7/8" hole from 3485' to 3737'

August 15, 1981 Drilled 7 7/8" hole from 3737' to 3984': trip for Bit No. 3: Drilled 7 7/8" hole from 3984' to 4192'

August 16, 1981 Drilled 7 7/8" hole from 4192' to 4569'

August 17, 1981 Drilled 7 7/8" hole from 4569' to 4847'

August 18, 1981 Drilled 7 7/8" hole from 4847' to 5087' Trip for Bit No. 4: drilled 7 7/8" hole from 5087' to 5093

August 19, 1981 Drilled 7 7/8" hole from 5093' to 5411'

August 20, 1981 Drilled 7 7/8" hole from 5411' to 5722'

August 21, 1981 Drilled 7 7/8" hole from 5722' to 5884': Lost circulation: Circulate LCM: Drilled 7 7/8" hole from 5884' to 5890': Trip for Bit No. 5

August 22, 1981 Drilled 7 7/8" hole from 5890' to 5920' T.D.: Condition hole for loggers: Ran Schlumberger Logs. Condition hole for casing

August 23, 1981 Ran 4 $\frac{1}{2}$ " production casing; 19 joints 11.6#/ft, 122 joints 10.5#/ft. stage collar set at 5398' K.B.; shoe set at 5910' K.B., cemented with 110 sacks Class G cement; lead, 485 sacks 65-35 fac; tail, 125 sacks Class G cement: Report Ends.

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LITHOLOGY

Sample descriptions begin at 5000' in Mississippian Otter beds. Samples are corrected for drill time lag. Samples were examined and described wet. Carbonates were described dry. Formation tops were determined from electrical logs.

SAMPLES CAUGHT IN 30' INTERVALS:

- 5000-30 Shale, green to grayish green, firm, chunky, waxy, silty in part, somewhat calcareous, variegated in part. Also tan, fragmental, firm to hard, massive to somewhat granular, very calcareous limestone that is oolitic in part, no shows
- 5030-60 Shale, dk gray to greenish gray, gritty, silty in part, chunky, dense, firm to soft, somewhat calcareous. Also limestone as above
- 5060-90 Shale, dk gray to lt gray, earthy to gritty, chunky, firm to soft, marly, very calcareous, dense
- 5090-5120 Shale, dk gray to light gray, gritty, chunky, firm, calcareous in part, dense. Some brown to light brown, cryptocrystalline, massive in part, fragmental, firm, very calcareous, tight, lime stringers
- 5120-50 Siltstone, light gray, friable, shaly, abrasive, gritty, quartzose, slightly calcareous matrix. Also limestone, tan, massive to granular, cryptocrystalline to microcrystalline in part, fragmental, firm, dull yellow mineral fluorescence but no cuts

5174 - E LOG TOP - KIBBY SANDSTONE

- 5150-80 Sandstone, white to lavender to red, very fine to fine grained, poorly sorted, firm to friable, subrounded quartzose grains, calcareous matrix, appears tight; much tan to light brown fragmental, cryptocrystalline to sublithographic firm, dense limestone. Dull yellow mineral fluorescence, no cuts
- 5180-5210 Sandstone, white to lavender to red, very fine to medium grained, poorly sorted, subrounded, quartzose, clear to somewhat frosted grains, friable with a calcareous matrix, intergranular porosity seems poor, no shows
- 5210-40 Sandstone, red, very fine to medium grained, poorly sorted, subrounded quartzose grains, clear to milky, trace green grains, friable, calcareous matrix, intergranular porosity seems poor, trace coarse grains, many quartz grains stained red, no shows
- 5240-70 Sandstone as above
- 5270-5300 Sandstone as above, becoming slightly finer grained

BEGIN 10' SAMPLES:

5306 - E LOG TOP - KIBBY LIMESTONE

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- 5300-10 Sandstone, red, silt to fine grained, poorly sorted, subrounded, calcareous matrix, friable, quartzose, clear to milky grains, appears tight, no shows
- 5310-20 Limestone, white to tan to light brown, fragmental, cryptocrystalline to microcrystalline, sucrosic in part, firm, very calcareous, granular and massive in part, no good intercrystalline porosity noticeable, trace bright yellow fluorescence producing slow flowing cuts. May be contamination
- 5320-30 Sandstone, white to dirty white, silt to fine grained, trace medium grains, subangular to subrounded, clear to somewhat frosted quartzose grains, very calcareous matrix, friable, appears tight, poorly sorted, poor intergranular porosity, no shows. Much limestone as above
- 5330-40 Sandstone, red, silt to very fine grained, poorly sorted, friable to firm, quartzose, matrix is slightly calcareous, appears tight, no shows
- 5340-50 Sandstone as above, also limestone; tan, fragmental, firm, cryptocrystalline to sucrosic, sublithographic in part, also massive in part, poor intercrystalline porosity, no shows
- 5350-60 Sandstone as above, red
- 5360-70 Sandstone as above, red
- 5370-80 Sandstone as above, red
- 5380-90 Siltstone, red, chunky, firm, some very fine sand, moderately sorted, calcareous, gritty, abrasive somewhat, trace medium and fine grained quartz grains within, no shows
- 5390-5400 Siltstone as above, no shows
- 5400-10 Sandstone, red, very fine grained, moderately sorted to poorly sorted, quartzose, calcareous matrix, trace fine to medium grains, friable, appears tight, no shows
- 5410-20 Sandstone as above, no shows
- 5420-30 Sandstone as above, no shows
- 5430-40 Sandstone as above, no shows
- 5440-50 Limestone, dirty white to gray, fragmental, firm, cryptocrystalline to microcrystalline, sucrosic and sublithographic in part, intergranular porosity seems poor, very calcareous, scattered bright yellow fluorescence, weak, very faint cuts, fossiliferous in part
- 5450-60 Limestone, dirty white to gray brown, fragmental firm, microcrystalline to sucrosic, cryptocrystalline in part, fossiliferous in part, no good intercrystalline porosity noticeable, no show
- 5460-70 Limestone, gray, microcrystalline to chalky, cryptocrystalline to sucrosic in part, firm, fragmental, no intercrystalline porosity noticeable, no shows. Many coarse, angular, conchoidally fractured, unconsolidated, quartz grains

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5470-80 Limestone as above, many quartz fragments as above

5481 - E LOG TOP - CHARLES

- 5480-90 Limestone, gray to gray brown, microcrystalline to sucrosic, massive in part, firm, fragmental, no good inter intercrystalline porosity noticeable, scattered bright yellow fluorescence producing slow flowing cuts
- 5490-5500 Limestone, medium gray to dark gray brown, cryptocrystalline to microcrystalline, sucrosic in part and chalky in part, some noticeable intercrystalline porosity, fragmental, firm, scattered fluorescence producing slow flowing cuts. Trace pink colored lime fragments
- 5500-5510 Limestone, light gray brown to dark gray brown, cryptocrystalline to microcrystalline, firm, fragmental, massive in part, sucrosic in part, no intergranular porosity noticeable, trace fluorescence, no cuts
- 5510-20 Limestone, as above, with scattered bright yellow fluorescence that produce slow flowing cuts
- 5520-30 Limestone, tan to dark gray brown, microcrystalline to cryptocrystalline, massive to sublithographic in part, firm, fragmental, no good intercrystalline porosity noticeable, scattered bright yellow fluorescence producing slow flowing cuts
- 5530-40 Limestone, dark graybrown, cryptocrystalline to microcrystalline, sucrosic to sublithographic in part, massive, firm, fragmental, no intercrystalline porosity noticeable, appears dense and tight, no shows
- 5540-50 Limestone as above, no shows
- 5550-60 Limestone, dark gray brown, microcrystalline to sucrosic, sublithographic in part, vuggy in part, appears to have fair intercrystalline porosity in some fragments, firm, fragmental, no shows
- 5560-70 Limestone, light gray brown to dark gray brown, cryptocrystalline to microcrystalline, sublithographic in part, massive, firm, fragmental, argillaceous, no good intercrystalline porosity noticeable, dull mineral fluorescence noticeable, no cuts
- 5570-80 Limestone as above, no shows
- 5580-90 Limestone, tan to light brown, some dark brown, firm, fragmental, microcrystalline to sucrosic, massive, chalky in part, cryptocrystalline in part, no noticeable intercrystalline porosity, trace fluorescence, no cuts, argillaceous
- 5590-5600 Limestone as above, also anhydrite: White, amorphous, soft, chunky, noncalcareous, scattered bright yellow fluorescence, producing slow flowing cuts

5600-10 Dolomite, tan to very light dull brown, earthy textured, massive, fragmental, firm, slow fizz in HCl. Also anhydrite as above, trace fluorescence producing slow flowing cuts

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- 5610-20 Limestone, tan to lt. gray, firm, fragmental, microcrystalline to cryptocrystalline, sucrosic and sublithographic in part, trace micropyrritic specks, massive in part, no noticeable intercrystalline porosity, trace scattered fluorescence that produce weak slow flowing cuts
- 5620-30 Limestone, tan to brown, cryptocrystalline to microcrystalline, sublithographic in part, massive, firm, fragmental, trace pink lime fragments, micropyrritic in part, no noticeable intercrystalline porosity or vugs, trace fluorescence but no cuts
- 5630-40 Limestone, white to tan, microcrystalline to granular, sucrosic in part, firm, fragmental, appears to have some intercrystalline porosity (poor to fair), scattered dull fluorescence but no cuts. Also anhydrite; white, soft, crystalline to massive and chalky

5644' - E LOG TOP CHARLES 'B' ZONE

- 5640-50 Limestone, tan to graybrown, firm, fragmental, cryptocrystalline to sublithographic, sucrosic to microcrystalline in part, argillaceous, no good porosity noticeable, no shows. Scattered anhydrite as above. Also, coarse, angular, clear, conchoidally fractured, unconsolidated quartz grains
- 5650-60 Limestone, tan to dark gray brown, firm, fragmental, cryptocrystalline to microcrystalline, sucrosic in part, coarsely crystalline in rare fragments, appears tight, maybe some intercrystalline porosity, no shows. Scattered quartz as above
- 5660-70 Limestone, tan to dark brown, cryptocrystalline to microcrystalline, sucrosic in part, sublithographic in part, firm, fragmental, vuggy in part, many have some porosity, scattered bright yellow fluorescence producing slow flowing cuts. Some anhydrite; white, soft, crystalline to chalky and massive
- 5670-80 Limestone, tan to dark graybrown, microcrystalline to sucrosic, sublithographic, cryptocrystalline in part, firm, fragmental, massive in part, no noticeable intercrystalline porosity, no shows. Trace anhydrite as above
- 5680-90 Limestone as above, no shows. Also anhydrite as above
- 5690-5700 Limestone as above, no shows
- 5700-10 Limestone, tan to white, microcrystalline to sucrosic, coarsely crystalline and granular in part, sublithographic in part, fragmental, firm, many have some intercrystalline porosity, poor if any, trace fluorescence with some very weak cuts

5717' - E LOG TOP - GREENPOINT ANHYDRITE

- 5710-20 Limestone, tan to dark gray brown, cryptocrystalline to microcrystalline, sublithographic and massive in part, firm, fragmental, no apparent porosity, scattered bright yellow fluorescence producing slow flowing cuts

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- 5720-30 Limestone, tan to dark graybrown, cryptocrystalline to microcrystalline, coarsely crystalline in part, also sucrosic and sublithographic in part, also sucrosic and sublithographic in part, firm, fragmental, trace vugs, no apparent porosity, trace bright yellow fluorescence but no cuts
- 5730-40 Dolomite, tan to light gray, firm, fragmental, microcrystalline to sublithographic and massive, micropyrictic in part, slow fizz in HCl, some limestone, no noticeable porosity, sucrosic in part, no shows
- 5740-50 Limestone, tan to gray to brown, cryptocrystalline to microcrystalline, sublithographic and massive in part, dolomitic in part, firm, fragmental, no noticeable porosity, no shows, micropyrictic in part, trace white, massive to crystalline, soft, anhydrite
- 5750-60 Limestone, tan to dark gray brown, microcrystalline to sucrosic, firm, fragmental, coarsely crystalline in part, may be some small amounts of intercrystalline porosity, dull mineral fluorescence, no cuts
- 5760-70 Limestone as above
- 5770-80 Limestone, medium gray to dark graybrown, firm, fragmental, microcrystalline to sublithographic, massive in part, sucrosic in part, no noticeable porosity, trace fluorescence, no cuts, trace white, crystalline to massive, soft anhydrite
- 5780-90 Limestone, gray to dark gray brown, firm, fragmental, cryptocrystalline to very finely microcrystalline, sucrosic in part, dolomitic in part, no noticeable porosity, no shows
- 5790-5800 Limestone as above, no shows
- 5904' E LOG TOP CHARLES 'C' ZONE
- 5800-10 Limestone as above, trace micropyrictic, no shows
- BEGIN 5' SAMPLES:
- 5810-15 Limestone, dk brown, cryptocrystalline to sublithographic, massive in part, somewhat sucrosic in part, micropyrictic in part, firm, fragmental, trace microcrystalline fragments, no noticeable porosity, scattered bright yellow fluorescence that produce weak slow flowing cuts
- 5815-20 Limestone, dk graybrown, cryptocrystalline to microcrystalline, sucrosic in part, firm, fragmental, trace coarsely crystalline fragments, micropyrictic, no noticeable intercrystalline porosity, scattered bright yellow fluorescence, very weak cuts
- 5820-25 Dolomite, light brown, very finely microcrystalline to sucrosic, soft, vuggy in part, some scattered, black tarry residue within, slow fizz in HCl, scattered fluorescence that produce slow greenish yellow flowing cuts
- 5825-26 Dolomite, light brown to brown, very finely microcrystalline to sucrosic, soft, vuggy in part, scattered black tarry residue within, slow fizz in HCl, scattered bright greenish yellow fluorescence that produce slow flowing greenish yellow cuts

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5826-32 Limestone, brown, very finely microcrystalline to sucrosic, firm, fragmental, no noticeable porosity, no shows, trace amounts of dolomite as above

5832-37 Dolomite, lt brown to brown, very finely microcrystalline to sucrosic, soft, poor to fair intercrystalline porosity, scattered yellowishgreen fluorescence that produce slow flowing cuts. Some black tarry residue within fragments

5837-40 Dolomite, as above, fluorescence and cuts as above

5840-50 Limestone, gray to graybrown, firm, fragmental, dolomitic in part, microcrystalline to sublithographic, massive in part, micropyrictic in part, no noticeable porosity, no shows

5850-60 Limestone as above, no shows

5860-70 Limestone, dk gray to gray brown, very finely microcrystalline to massive, firm, fragmental, sublithographic in part, no noticeable porosity, no shows

5870-80 Limestone, dk gray to dk graybrown, cryptocrystalline to microcrystalline, sucrosic in part, massive in part, firm, fragmental, no noticeable porosity, no shows

5880-90 No sample recovered due to L.C.M.

5890-5900 No sample recovered due to L.C.M.

5900-10 Limestone, tan to very dark gray brown, cryptocrystalline to microcrystalline to massive, sucrosic in part, soft to firm, chalky in some soft fragments, no noticeable porosity, scattered bright yellow fluorescence, producing weak slow flowing cuts

5910-20 Limestone, white to tan to dark gray, microcrystalline to cryptocrystalline, to massive, coarsely crystalline in part, sucrosic in part, many have some intercrystalline porosity, scattered bright yellowish white fluorescence, producing slow flowing cuts.

5920' Total depth by driller

5905' Total Depth by logger

14' Depth discrepancy from
pipe strap

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MONTANA/NORTH DAKOTA PROJECT DRILLING REPORT

Page 1

August 10, 1981

TXO DRILLING - MONTANA:

BUCKLES "B" #1 (6000')
Prop. #92287, Afe #81-1217
Roosevelt Co., MT/TXO 100%
22-T28N-R51E

8/10/81 MIRU Bird Rig #5

8/11/81 Rig shut down for routine maintenance.
Will spud 8/12/81.

8/12/81 860' (860'). Drlg Surface.
10.1/41/NC. Spudded @ 10:00 pm
8/11/81. Drld 12½" hole to 860',
TFB. Day 1. (CWC \$29,400).

8/13/81 1206' (346') WOC. Set pipe @
1149'. Ran 26 jts 8-5/8",
24# K-55 csg to 674', cem
w/760 sx Cl G. Good circulation.
Float held & pkr set. Day 2.
(CWC \$59,863).

8/14/81 2460' (1256'). Drlg. Drill out
csg shoe @ 11pm 8/13/81. Day 3.
(CWC: \$90,583).

8/15/81 3974' (1514'). Drlg. 9.7/39/20.5
Day 4. (CWC \$125,583).

8/16/81 4300' (326'). Drlg. 10.4/32/18.
Day 5. (CWC \$137,383).

8/17/81 4680' (380'). Drlg. 10.5/32/18.
Day 6. (CWC \$147,363).

8/18/81 4975' (295'). Drlg. Spearfish.
10.5/34/15. Day 7. (CWC \$155,343).

8/19/81 5200' (295'). Drlg. Kibbey.
10.4/32/17. Day 8.
(CWC \$164,273).

8/20/81 5525' (325'). Drlg. Kibbey.
10.3/32/15. Day 8.
(CWC \$221,275).

8/21/81 5810' (275'). Drlg. Charles "B".
10.5/35/11. Day 8. (CWC \$185,707).

8/22/81 5913' (103'). C&C. Charles "C".
10.6/36/10. Lost circ @ 5884'. Lost
approx 300 bbls. Regained circ. Drld
to 5920'. Lost another 70 bbls mud.
Day 9. (CWC \$190,087).

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TXO DRILLING - MONTANA:

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, Bird Rig #5

8/23/81 5913' (0'). TOOH. Charles "C".
C&C 2½ hrs. TOOH. Ran DLL-MSFL from
5905-1178' & FDC-CNL from 5905-5700'.
TIH. C&C. TOOH. Day 10.
(CWC \$222,345).

8/24/81 5913' (0'). RD RT. Charles "C".
Ran 141 jts 4½" 10.5# & 11.6# csg.
Set @ 5913' w/FC @ 5863 & DV @ 5398',
Cmt 1st stage w/100 sxs Class "G".
Cmt 2nd stage w/485 sxs 65/35 poz.
Tailed in w/125 sxs Class "G". Had
good circ thruout. BP @ 1:30 pm
8/23/81. Waited 12 hrs. Set slips
@ 6 pm 8/24/81 & RR @ 8 am 8/24/81.
Day 11. (CWC \$292,377)

COMPLETION:

8/25/81 WOCR. (CWC \$292,377).

8/26/81 WOCR. (CWC \$292,377).

8/27/81 WOCR. (CWC \$292,377).

8/28/81 WOCR. (CWC \$292,377).

TXO COMPLETION:

8/29/81 WOCR.

8/30/81 TIH w/bit & scrpr. (\$330,505).

8/31/81 SDFWE. (\$330,505).

TXO COMPLETION:

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E

9/1/81 Drlg out cem. Tagged cmt @ 5115',
drld 250' cem. Drld thru DV tool.
(CWC \$334,305).

9/2/81 5835'. TIH. Drld out FC & cmt to
5835'. TOH. Ran GR-CCL log. (CWC
\$341,381).

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TXO COMPLETION:

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc

- 9/3/81 Circ pkr fluid, TOOH, PU Vann
3-5/8" perf gun and Baker model
"R" pkr on 188 jts 2-3/8" tbg.
Ran in hole w/tools & ran
GR-CCL log to correlate setting
depth. Set pkr @ 5745' w/18,000
compr. Instld wellhead. Droppe
firing bar to perf csg w/Vann
gun @ 5806-08' w/4 JSPF. No
flow into well. Fished firing
bar w/WL & released Vann gun.
Btm OE tailpipe @ 5788', Baker
profile SN @ 5711'. SDFN.
(CWC \$358,190).
- 9/4/81 RU Western & acidized perms
w/200 gal 15% spearhead acid,
BDP=3100#, broke to 1800#, dec
rate to 1/2 BPM @ 500#, ISIP=
300#, 27 BLTR, flowed acid wtr
to pit, turned flow to test tan
flowing 1/2" stream on 10/64"
ch @ 225# FTP. Left flowing
overnight. (CWC \$246,918).
- 9/5/81 Ck plugged. SITP = 500 psi,
cleaned out ck, flowing @
375-400 psi w/12/64" ck, trace
oil w/heavy emulsion in wtr.
Left flowing overnight.
(CWC: \$246,918).
- 9/6/81 Ck plugged. Shut well in.
Fluid rec in 2 days intermitten
flowing = 7 BO & 18 BW.
(CWC: \$246,918).
- 9/7/81 SI. (CWC: \$246,918).
- 9/8/81 SI. (CWC: \$246,918).
- 9/9/81 Opened to flow @ 3:00 p.m.
9-8-81, initial flow temp. =
67°F. Flowed 1 1/2 hrs to tank,
flow temp increased to 80°F,
rec 25 BF @ 210 psi FTP on
19/64" ck. Continue to flow
overnight. (CWC: \$246,918).

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BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc

- 9/10/81 Flowed 18 BO & 242 BW in 15 hrs on 19/64" ck @ 350 psi FTP, wellhead temp = 110°F, 10 min SITP = 600 psi, opened on 12/64" ck @ 425 psi FTP, wellhead temp = 113°F, continue flowing. (CWC: \$246,918)..
- 9/11/81 Flowed 7 BO & 210 BW in 24 hrs on 12/64" ck w/425 psi FTP, flowing wellhead temp dec to 95°F. Water analysis indicates channeling. (CWC: \$246,918).
- 9/12/81 RU C.A. White Wireline & set a plug in the "F" nipple @ 5710'. RU NL Well Svc. Release pkr & pull up to 3800' w/2 3/8" tbg. Retrieved wireline plug. Opened well to flow on 12/64" ck. SDON. (CWC: \$250,773)
- 9/13/81 WHP 500 psi. Ck was plugged off. Cleaned ck & opened well to tank on 12/64" ck. Flowed well 1½ hrs. RU Gearhart & ran diff. temp logs. RU Halliburton & pumped 10 bbls fresh wtr, 20 bbls Tem-block 50 & 10 bbls fresh wtr. Displaced w/heavy salt wtr. Initial pump in pressure 1 BPM @ 3000#. Displaced @ 2½ BPM @ 1000#. Circ hole w/heavy salt wtr. SDFWE. (CWC: \$260,373)
- 9/14/81 Well SI for Sunday. Prep to TOOH w/tbg. (CWC: \$260,373).
- 9/15/81 SITP = 50 psi, pulled tbg & pkr from 3800' to 800' with well flowing, SD to set WL tbg plug. SITP inc. from 100 psi to 220 psi in 2½ hrs. Set tbg plug in "F" nipple. Ran tbg & pkr to 4280'. Prep to circ salt wtr to kill well. (CWC: \$264,348).

BUCKLES 'B' #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc

- 9/16/81 SITP = 75 psi, pulled tbg & pkr. TIH w/overshot & rec Vann perf gun. Well flowing during trip @ est 150-180°F, oil cut inc from 1% to 10% @ end of day, no gauge on flow. SDFN. (CWC: \$267,448)
- 9/17/81 SITP 400 psi. Blew down pres. TOOH w/ tbg. RU Gearhart Wireline & ran a CBL-GR from 5830' to 4285' (cmt top). Log showed good bond 5000' - TD, partial bond 4700' - 5000' & poor bond above 4700'. TIH w/pkr, 2 3/8" tbg. Set tailpipe @ 5766' w/pkr @ 5735' w/10,000# compression. NU wellhead & opened well on 28/64" ck. (CWC: \$271,835)
- 9/18/81 Flowed well on 16/64" ck, FTP = 280 psi, tested 22 BFPH w/2 1/2% oil cut. (CWC: \$271,835).
- 9/19/81 Flowed 340 BF in 21 hrs, no oil, 13/16" ck, FTP 325 psi.
- 9/20/81 Flowed 450 BF w/10 BO in 24 hrs, 16/64" ck.
- 9/21/81 Flowed 460 BF w/11 BO in 24 hrs, 16/64" ck. (CWC: \$271,835).
- 9/22/81 RU NL Well Service, release & pull tbg & pkr, prepare to run cmt retainer. SDFN. (CWC: \$271,835)
- 9/23/81 SICP = 430 psi. Ran Howco cmt retainer on 2 3/8" tbg, set @ 5645'. RU Halliburton, estab. rate of 3 BPM at 1000 psi. squeezed w/100 sx Cl "G" w/.8% FLA @ 2 BPM w/800 psi, did not squeeze, stung out of retainer, reverse circ tbg. SDFN. (CWC: \$281,081)
- 9/24/81 Stung into retainer, pressured to 1300 psi, held ok. TOOH w/tbg. TIH w/ 3-7/8" bit & scraper. (CWC: \$283,785)

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BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc.

- 9/25/81 Drld out cmt retainer @ 5645'.
Hit top cmt @ 5650', drilling
out cmt. (CWC: \$287,156).
- 9/26/81 Drld out cmt to PBTD 5840',
pressured csg to 1600#' &
bled off immediately.
Prep to squeeze again.
(CWC: \$290,168).
- 9/27/81 TIH w/Model "R" pkr, set @
5675' w/TP @ 5705'. RU
Western. Squeezed w/50 sx
Class "G" cmt w/0.2% WR-6
0.5% CF-6, pmpd @ 1/2 BPM
& 2000 psi, dec to 3/4 BPM
& 1500 psi, displaced to perfs
& squeezed off w/2100 psi,
attempted to reverse out cmt
w/o success, pressured tbg
to 4000 psi & held. Pulled
pkr up to 1200', re-pressured
tbg to 4000 psi & cleared cmt
from tbg. TOOH. SDFN.
(CWC: \$296,471)
- 9/28/81 SDFWE.
- 9/29/81 TIH w/bit & scraper. Drill
out cmt stringers from 600'
to 5700'. SDFN.
(CWC: \$300,071)
- 9/30/81 Drilled out cmt to PBTD, perfs
clear of cmt. Ran Mod "R" pkr
to 5675', TP @ 5705'. Squeezed
perfs w/35 sx Class "G" w/
.4% WR-6, .6% CF-6 & .35% silica
flour, pmpd in @ 1/2 BPM
w/1500 psi, pmpd in stages and
squeezed @ 2100 psi. Pulled
pkr. SDFN. (CWC: \$303,633).
- 10/1/81 Drld out cmt from 5780' to 5820'.
Pmpd into perfs @ 2 BPM w/1100
psi. SDFN. (CWC: \$306,957)
- 10/2/81 Pulled bit & scraper. RU Gearhart.
Perfed @ 5802'-04' w/2 JSPF,
total 9 shots w/3-1/8" HSC gun.
~~Ran 2 3/8" tbg w/Model "R"~~
~~pkr set @ 5735' w/TP @ 5766'.~~
Opened well to flow @ 3:30 pm.
FTP = 260 psi w/12/64" ck.
(CWC: \$307,875).

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1 (6000')
AFE #81-1217
MT/TXO 100%
NL Well Svc.

- 10/3/81 Ck plugged, TP = 390 psi.
Cleaned out ck, left flowing
on 12/64" w/FTP = 50 psi,
flowed 30 bbls load wtr in
8 hrs.
- 10/4/81 Flowed 25 BF w/no oil in
8 hrs, 12/64" ck, FTP 150 psi.
- 10/5/81 Flowed 25 BF in 22 hrs w/oil
trace, 12/64" ck, FTP 210 psi.
Prep to acidize. (CWC: \$310,875)
- 10/6/81 Acd perfs w/200 gal 15% Spearhead
acid, ATP = 800 psi @ 1 BPM,
ISIP = 750 psi, flowed on open ck
@ 120 psi, left flowing over-
night on 12/64" ck. Ck plugged
during night. SITP = 300 psi
this AM, prep to acd w/diverting
agent. (CWC: \$313,949)
- 10/7/81 RU Western, estab rate 3 BPM
@ 1300 psi, pmpd 250 gal
diverting agent of 40# gel
w/300# benzoic acid flakes &
9 ball sealers, followed w/500
gal 15% Spearhead acid. BDP =
2300 psi, ATP = 1500 psi @ 1.6
BPM, ISIP = 650 psi. 73 BLWTR.
Started flowing back on 12/64"
ck w/290 psi FTP.
(CWC: \$317,317)
- 10/8/81 Flowed 40 bbls LW in 3 hrs,
opened to 16/64" ck, well died
during night, SITP = \emptyset . Opened
wellhead & blew out solid plug
of diverting material, well
flowing on 16/64" ck, FTP =
300 psi. (CWC: \$317,317).
- 10/9/81 Flowed 216 BF in 18 hrs w/5%
oil cut, FTP = 350 psi on 16/64"
ck, fluid warming up.
(CWC: \$317,317)

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BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc.

10/10/81	Flowed 20 BO, 410 BW in 24 hrs. FTP 310 psi, 16/64" ck.
10/11/81	Flowed 3 BO, 107 BW in 24 hrs. FTP 310 psi, 16/64" ck.
10/12/81	Flowed 5 BO, 350 BW in 24 hrs. FTP 310 psi, 16/64" ck. (CWC: \$317,317).
10/13/81	Flowed 5 BO & 445 BW in 24 hrs. FTP = 300#, 18/64" ck. (CWC: \$317,317)
10/14/81	Flowed 3 BO & 100 BW in 24 hrs on 12/64" ck. FTP = 405 psi.
10/15/81	Flowed 43 BF in 24 hrs w/trace oil, 12/64" ck. FTP = 380 psi. (CWC: \$317,317).
10/16/81	Flowed 30 BF in 24 hrs w/no oil, FTP = 380 psi, 12/64" ck. (CWC: \$317,317).
10/17/81	Flowed 5 BO & 483 BW in 24 hrs on 22/64" ck w/FTP = 210 psi.
10/18/81	Flowed 6 BO & 646 BW in 24 hrs on 23/64" ck w/FTP = 210 psi.
10/19/81	Flowed 6 BO & 622 BW in 24 hrs on 23/64" ck w/FTP = 200 psi.
10/20/81	SI for evaluation. <u>DROP</u> <u>FROM REPORT UNTIL FURTHER</u> <u>ACTIVITY.</u> (CWC: \$317,317)

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DAILY DRILLING REPORT

DATE 8-14-81

DAY 3

OPERATOR TXO

WELL Buckles 'B' 1

DEPTH 2460' OPERATIONS REPORT TIME Drly.

1,256 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

Pit wtr
MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____
YP _____; GELS _____; OIL _____; LCM _____;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES (3)	NEW/USED	FROM - TO	FEET	HOURS
1	B 8014	7 7/8 "	Smith	FDS	16				

WEIGHT ON BIT 25-30 RPM 200 NO. 1 PUMP PRESSURE 600[#] PUMP 5 1/2" X 16" X 64 SPM
NO 2 PUMP PRESSURE _____ PUMP _____" X _____" X _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE
1800	1°	2325	1°

REMARKS: NU 5 1/2 hrs.
WD csg hd assembly. 1 1/2 hr

Drill out csg shoe @ 11: pm 8-13-81

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DAILY COSTS

RIG 25,120
MUD _____
WATER 3,000
BITS _____
LOGGING _____
TESTING _____
CEMENTING _____
RENTALS 100
MATERIALS (csg & wh) _____
csg hd assembly 2500

000576
DAILY TOTAL 30,720
CUMULATIVE 90,583

DAILY DRILLING REPORT

DATE 8-15

DAY 4

OPERATOR JXD

WELL Bucardo R. #1

DEPTH 3974 OPERATIONS REPORT TIME July

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT 9.7; VIS 39; WL 20.5; FC _____; PH 8; SOLIDS trace; CL _____; PV 1

YP 1; GELS _____; OIL _____; LCM _____; _____

[illegible]

WEIGHT ON BIT 30 RPM 60 NO. 1 PUMP PRESSURE 8m PUMP "X "X 64 SPM
NO 2 PUMP PRESSURE PUMP "X "X SPM

SURVEYS:	DEPTH	ANGLE	DEPTH	ANGLE
	1/4°	3356	3985	1°

REMARKS: _____

DAILY COSTS

RIG 39 200

MUD _____ 50

WATER 19.00

BITS.

LOGGING

TESTING

CEMENTING

RENTALS 16.2

MATERIALS (csg & wh).

Fuel 2381.45

Welding	350.00
---------	--------

71006109	300
	000.55

DAILY TOTAL	35,000
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CUMULATIVE \$ 125.583

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DAILY DRILLING REPORT

DATE 5

DAY 8-16

OPERATOR TXO

WELL Buckood B" #1

DEPTH 4300' OPERATIONS REPORT TIME Drilg.

326' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT 11.4; VIS 32; WL 18; FC _____; PH 7; SOLIDS 3.5; CL _____; PV 7

YFS 6; GELS 2-3; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
<u>3</u>									

WEIGHT ON BIT 30 000 RPM 60 NO. 1 PUMP PRESSURE 800 PUMP _____ "X" _____ "X" 54 SPM
NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: _____

DAILY COSTS	
RIG	<u>6520</u>
MUD	<u>1800</u>
WATER	<u>1000</u>
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	<u>150</u>
MATERIALS (csg & wh)	
Fuel	<u>2.143</u>
	<u>000534</u>
DAILY TOTAL	<u>11,800</u>
CUMULATIVE	<u>\$ 137,383</u>

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DAILY DRILLING REPORT

DATE 8-17

DAY 6

OPERATOR TXO

WELL Buckhorn B" #1

DEPTH 4680' OPERATIONS REPORT TIME July

380' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT 10.5; VIS 32; WL 18; FC _____; PH 7; SOLIDS 3.5; CL _____; PV 7

YP 5; GELS 2-3; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
<u>3</u>									<u>40</u>

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM
NO. 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE
<u>4611</u>	<u>1 1/2°</u>		

REMARKS: Drill break -
4519' - 4531'
Dild. 1 min / ft

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DAILY COSTS

RIG 7600
MUD 1800 / 5740
WATER _____
BITS _____
LOGGING _____
TESTING _____
CEMENTING _____
RENTALS 150
MATERIALS (csg & wh) _____

000533

DAILY TOTAL 9,990
CUMULATIVE \$ 147,373

DAILY DRILLING REPORT

DATE 8-18-81

DAY 7

OPERATOR TXO

WELL Buckles "B" #1

DEPTH 4975' OPERATIONS REPORT TIME Drlg

295 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Spearfish

MUD: WT 10.5 VIS 34; WL 15; FC _____; PH 7; SOLIDS 3.5; ^{Salt} 293; PV 11

YP 7; GELS 3/; OIL _____; LCM _____;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
3	768809	7 7/8	SEC	B84F	15-15-15	New	3987-	988	63

WEIGHT ON BIT 30 RPM 60 NO. 1 PUMP PRESSURE 850 PUMP 5 1/2" X 16" X 64 SPM
NO 2 PUMP PRESSURE _____ PUMP _____" X _____" X _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Drlg break 4953'-4966'
Rate 4 1/2" ft → 3 1/4 min/ft. → 4 min/ft

Expert Mud loggers on location
8-17-81 in afternoon.

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Compliance & Environmental
Justice

DAILY COSTS	
RIG	5900
MUD	1200
WATER	530
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	175
MATERIALS (csg & wh)	
Supv	200
	000572
DAILY TOTAL	7980
CUMULATIVE	155343

DAILY DRILLING REPORT

DATE 8-19-81

DAY 8

OPERATOR TXO

WELL Buckles "B" 1

DEPTH 5200 OPERATIONS REPORT TIME Dr 1g

295 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Kibbey

MUD: WT 10.4 VIS 32; WL 17; FC _____; PH 7; SOLIDS 3.5; CL _____; PV 6

YP 6; GELS 34/6; OIL -; LCM _____; Salt 293000

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
3								1103	71 1/4
4	45732	7 1/2	HTC	J22	15-15-15	New	5082	113	7

WEIGHT ON BIT 38 RPM 60 NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM
NO 2 PUMP PRESSURE 800 PUMP 5 "X" 16 "X" 64 SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE
5081	1 1/4 °		

REMARKS: _____

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DAILY COSTS	
RIG	4500
MUD 9468	1300
WATER	130
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	500
MATERIALS (csg & wh)	
Fuel	2300
Supr	200
	000531
DAILY TOTAL	8930
CUMULATIVE	164,273

DAILY DRILLING REPORT

DATE 8-20-81

DAY 8

OPERATOR TXO

WELL Buckles "B" 1

DEPTH 5525 OPERATIONS REPORT TIME Prlg

325 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Kibbey

MUD: WT 12.3 VIS 32; WL 15; FC ; PH 7; SOLIDS 3.5; CL 122; PV 6

YP 8; GELS 3/4; OIL ; LCM ; Salt: 291000

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
4		7 7/8	HTC	J-22	15-15-15				32

WEIGHT ON BIT 35 RPM 60 NO. 1 PUMP PRESSURE 850 PUMP 5 1/4" X 16" X 64 SPM
NO 2 PUMP PRESSURE 800 PUMP 5 1/4" X 14" X 64 SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: _____

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DAILY COSTS

RIG 6500

MUD 1325

WATER 130

BITS

LOGGING

TESTING

CEMENTING

RENTALS 340

MATERIALS (csg & wh)

Supr 200

000530

DAILY TOTAL 8695

CUMULATIVE 221,275

DAILY DRILLING REPORT

DATE 8-21-81

DAY 8

OPERATOR TXO

WELL Buckles "B" #1

DEPTH 5810 OPERATIONS REPORT TIME Dr 1g

275 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Charles "B"

MUD: WT 10.5 VIS 35; WL 11; FC _____; PH _____; SOLIDS _____; CL 184 000; PV _____

YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
4		7 7/8	HTC	J-22	15-15-15	New	5087	723	54 1/2

WEIGHT ON BIT 3.5 RPM 60 NO. 1 PUMP PRESSURE _____ PUMP _____"X_____"X_____ SPM
NO 2 PUMP PRESSURE 750 PUMP 5 1/2"X14"X64 SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE
<u>5500</u>	<u>1°</u>		

Do not include
REMARKS: Dr 1g break Charles "A"
5550'-5567' 5" 1/2 → 1" 1/2 → 5" 1/2

5616-5622' 5" 1/2 → 1" 1/2 → 5" 1/2

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Office of E. J. J. J.

Comptroller

5660-5670' 5" 1/2 → 1" 1/2 → 5" 1/2

5700'-5707' 5" 1/2 → 3 1/4" 1/2 → 5" 1/2

15 unit gas increase

DAILY COSTS

RIG	<u>5500</u>
MUD	<u>2000</u>
WATER	<u>130</u>
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	<u>360</u>
MATERIALS (csg & wh)	<u>44</u>
Fuel	<u>2400</u>
Rathole	<u>2800</u>
Supr	<u>000509</u>

DAILY TOTAL	<u>12934</u>
CUMULATIVE	<u>185,707</u>

DAILY DRILLING REPORT

DATE 8-22-81

DAY 9

OPERATOR TXD

WELL Buckles 'B' 1

DEPTH 5913 ~~5920~~ OPERATIONS REPORT TIME C&C

103 ~~110~~ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Charles C

MUD: WT 12.4 VIS 36; WL 10; FC _____; PH 7; SOLIDS 4; CL 18.5 ~~8.5~~; PV 9

YP 6; GELS 3/7; OIL _____; LCM 2; Salt 304500

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
<u>5</u>	<u>RR3154</u>	<u>7 7/8</u>	<u>STC</u>	<u>F-3</u>		<u>New</u>	<u>5890-5920</u>	<u>30</u>	<u>2</u>
<u>4</u>								<u>804</u>	<u>61 1/4</u>

WEIGHT ON BIT 40 RPM 65 NO. 1 PUMP PRESSURE 800 PUMP 5 1/2" X 16" X 64 SPM
NO 2 PUMP PRESSURE _____ PUMP _____" X _____" X _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: lost circ @ 5884'. Lost
approx 300 bbls. Regained circ.
Drilled to 5920'. Lost
another 70 bbls. mud.

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DAILY COSTS	
RIG	<u>820</u>
MUD	<u>2600</u>
WATER	<u>360</u>
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	<u>500</u>
MATERIALS (csg & wh)	
Supr	<u>200</u>
	<u>003528</u>
DAILY TOTAL	<u>4380</u>
CUMULATIVE	<u>190087</u>

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10. PLANS FOR RESTORATION OR SURFACE

- A. Backfilling, levelling, contouring and waste disposal: The reserve pit will be backfilled after evaporation or removal of drilling fluids. After backfilling, the pit area will be levelled to the original contour. The mouse and rat holes will be filled. As per Item #7, trash will be burned and buried.
- B. Revegetation and rehabilitation: Upon backfilling of the reserve and mud pits, the disturbed area will be recontoured prior to seeding; previously stockpiled topsoil will be redistributed evenly.
- C. If any oil is on the pit, it will be removed or overhead flagging will be installed.
- D. Timetable for commencement and completion of rehabilitation operations: The entire pad area (if a dry hole) or disturbed areas not needed for production will be recontoured within 60 days, pending drying of reserve pit prior to backfilling. Depending upon weather for rapid seed germination and standing crop, restoration should be final one year after spud date.

11. OTHER INFORMATION

General description of:

- A. Topography, soil characteristics, geologic features, flora, fauna: The proposed well site is located in a relatively flat wheat field. The land slopes slightly to the west from the drill site, toward the Poplar River, approximately 2 miles west. The land is under cultivation but is currently fallow. A ridge 0.5 miles runs north-south and has an elevation of about 80-120 feet above the elevation of the well pad. Dominant fauna includes small mammals and birds. No endangered species are known to exist in the area.
- B. Other surface-use activities: The surface is privately owned by Austin R. Buckles; it is currently being farmed by the Buckles family. Texas Oil & Gas Corp. will execute a surface damage agreement with Mr. Buckles.
- C. Proximity of water, occupied dwellings, archeological, historical or cultural sites: The Poplar River is located approximately 2.0 miles west of the drill site; in addition, a number of intermittent streams exist east of the drill site. A ranch house is located approximately 1.0 mile southwest of the drill site. The Bureau of Indian Affairs has conducted an environmental survey of the area and has determined that since the drill site is located in an active agricultural area, that any archeological, historical, or cultural values would have been destroyed or disturbed. Therefore, an archeological survey will not be required.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVES

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

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Ronald Becker
Leo Heath - 406/656-9917 - Residence
Texas Oil & Gas Corp.
2705 Montana Ave., Suite 300
Billings, Montana 59101
406/248-4330 - Business

13. CERTIFICATES

The following statement is to be included in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texas Oil & Gas Corp. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: 6-22-81

Ronald Becker by Leo Heath
Ronald Becker
Project Manager

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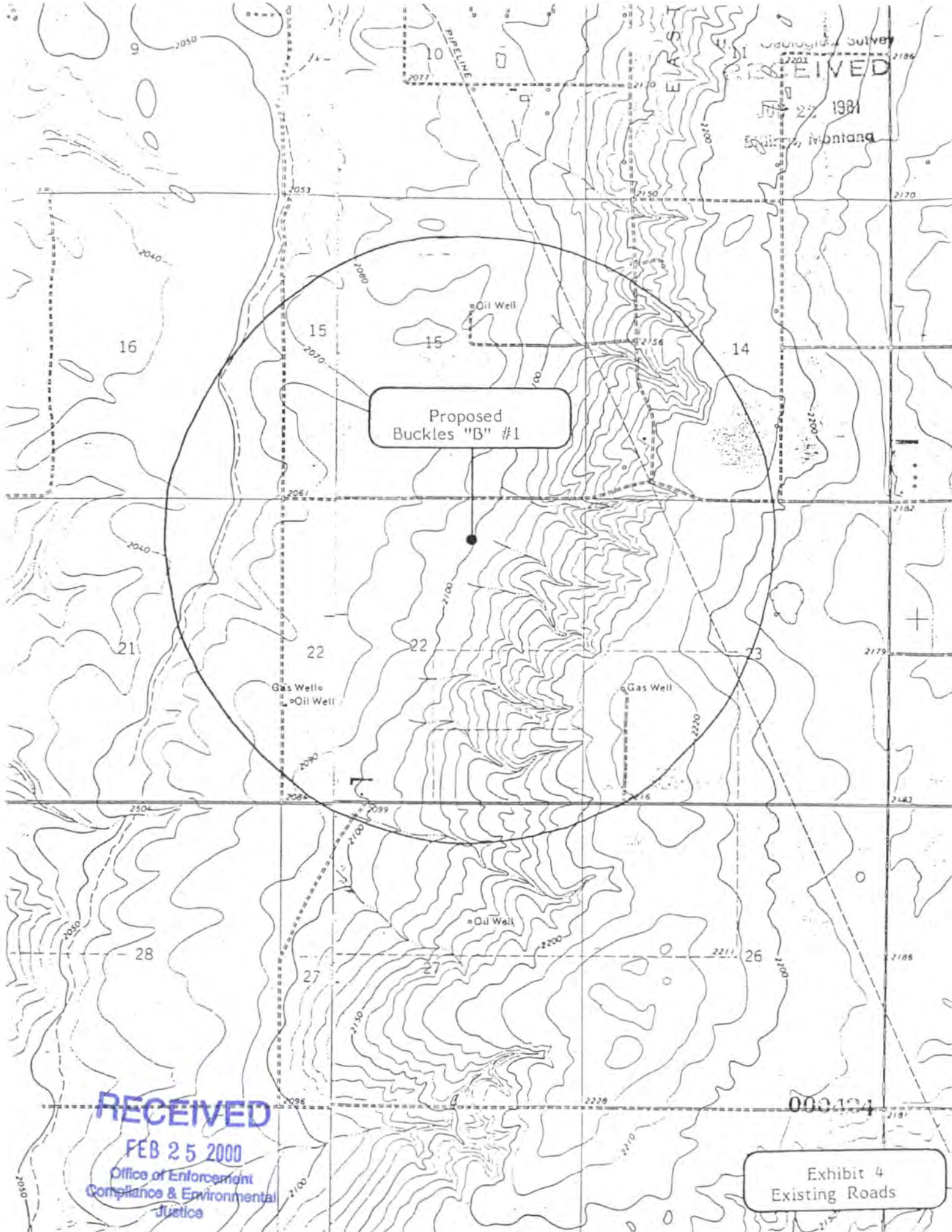
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Exhibit 3
Access Route



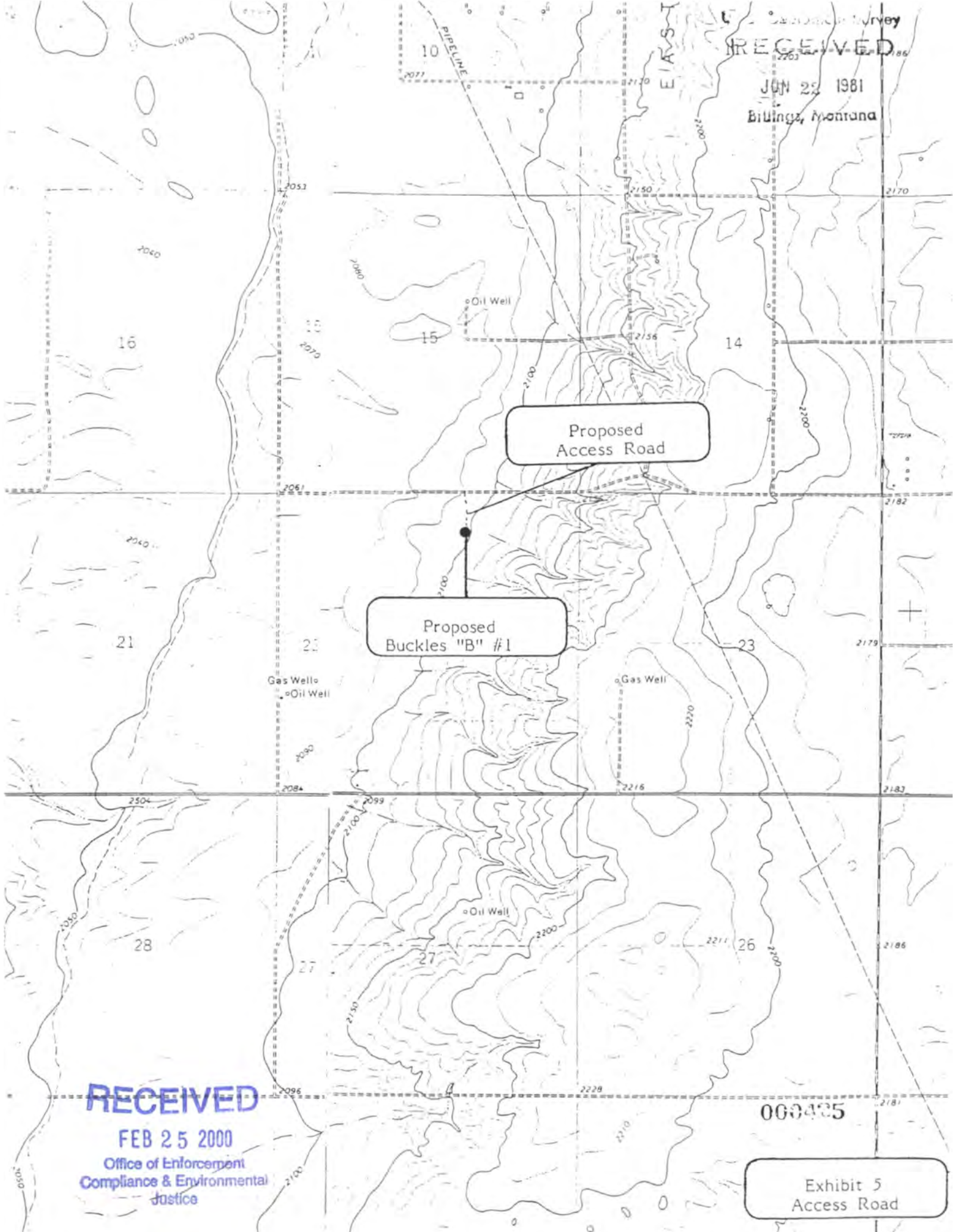
Geological Survey
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27 1981
Bureau of Land Management

Proposed
Buckles "B" #1

Exhibit 4
Existing Roads

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Survey
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Burlingame, Montana



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Exhibit 5
Access Road

HUBER #1
COMPL 8-25-52
NO TESTS

MURPHY OIL
UNIT #32
COMPL 11-54
IP 41 BOPD
PARO 2 BOPD

MURPHY OIL
UNIT #10
COMPL 11-57
IP 268 BOPD
CUM 356343
PARO 28 BOPD

MURPHY OIL
UNIT #789
COMPL 1953
IP 18 BOPD
CUM 416938 BOPD
PARO 3 BOPD

JUN 22 1981

Bidings, Montana

MURPHY OIL
UNIT #104
COMPL 1958
IP 221 BOPD
CUM 344,958 BOPD
PARO 15 BOPD

Proposed
Buckles "A" #2

Buckles "A" #1

Proposed
Buckles "B" #1

MESA 1-22 BIERE
COMPL 6-8-70
IP 516 BOPD
996 BWPD
CUM 158,999 BOPD + 1350166 BW
PARO 15 BOPD + 1160 BWPD (4-80)

JUNIPER

#1-21 FOPLAR
COMPL 3-80
IP 4 BOPD
100 BWPD
CUM 242 BOPD
SHUT-IN

TO 998' K₁
SWD

MURPHY OIL
UNIT #55
COMPL 6-55
IP 198 BOPD
CUM 226,466 BOPD
PARO 6 BOPD

MURPHY OIL
UNIT #26
COMPL 8-53
IP 23 BOPD
CUM 61,779 BOPD
T-2 6-62
P & A 1965

MURPHY OIL
UNIT #72
P & A 4-56
DST Mcc-REC 90' GAS
F 1515
SIP 2995

TO 850'

TS1E

AMARCO RESOURCES
US 1-27
COMPL 7-73
DST Mcc-1
280' HO + GCM, 15% OIL
90' MCSW
(5804-87)

NATOL SIOUX 1-25
COMPL 2-23-70
IP 20 BOPD + 215 BWPD
PROD TEST 3 BOPD
P & A 1971

MURPHY OIL
UNIT #63
COMPL 2-55
IP 34 BOPD
CUM 5097 BOPD
KIBBEY SD
P & A 1962

PARTEE-CATLIN 1
COMPL 6-13-65
TO D IN KIBBEY
NO SPL SHOWS
NO TESTS

AJAX OIL CO
PATCH #1
COMPL 8-1952
DST Mcc-REC 125' GCM
25' O+WCM
FP: OFF SIP 2925
CORED Mcc-1, 550

EMPIRE OIL
LOCKMAN #1
P & A 1969
DST Mcc-1 REC. 300' MUD-
300' SMCS W/
FP 75' 300'
SIP 2974

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R23N

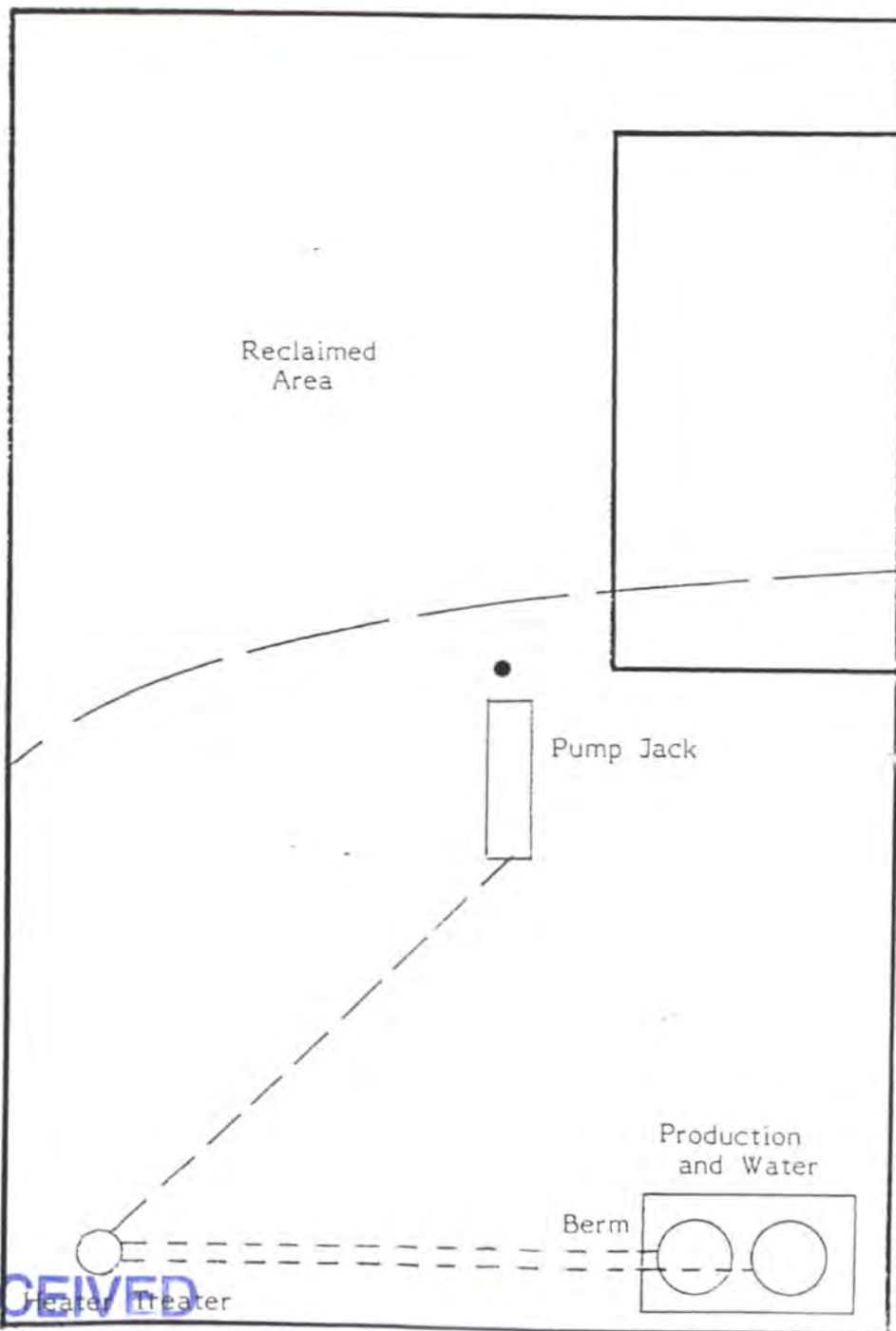
EXHIBIT 6
1 Mile Radius

Texas Oil & Gas Corp.
Buckles "B" #1

Cal Survey
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JUN 22 1981
Billings, Montana



Scale: 1" = 50'



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Exhibit 7
Production Facilities

Texas Oil & Gas Corp.
Buckles B#1
40' in & 1930' fe
Sec. 22 T-23N R-11E
Roosevelt Co. Montana

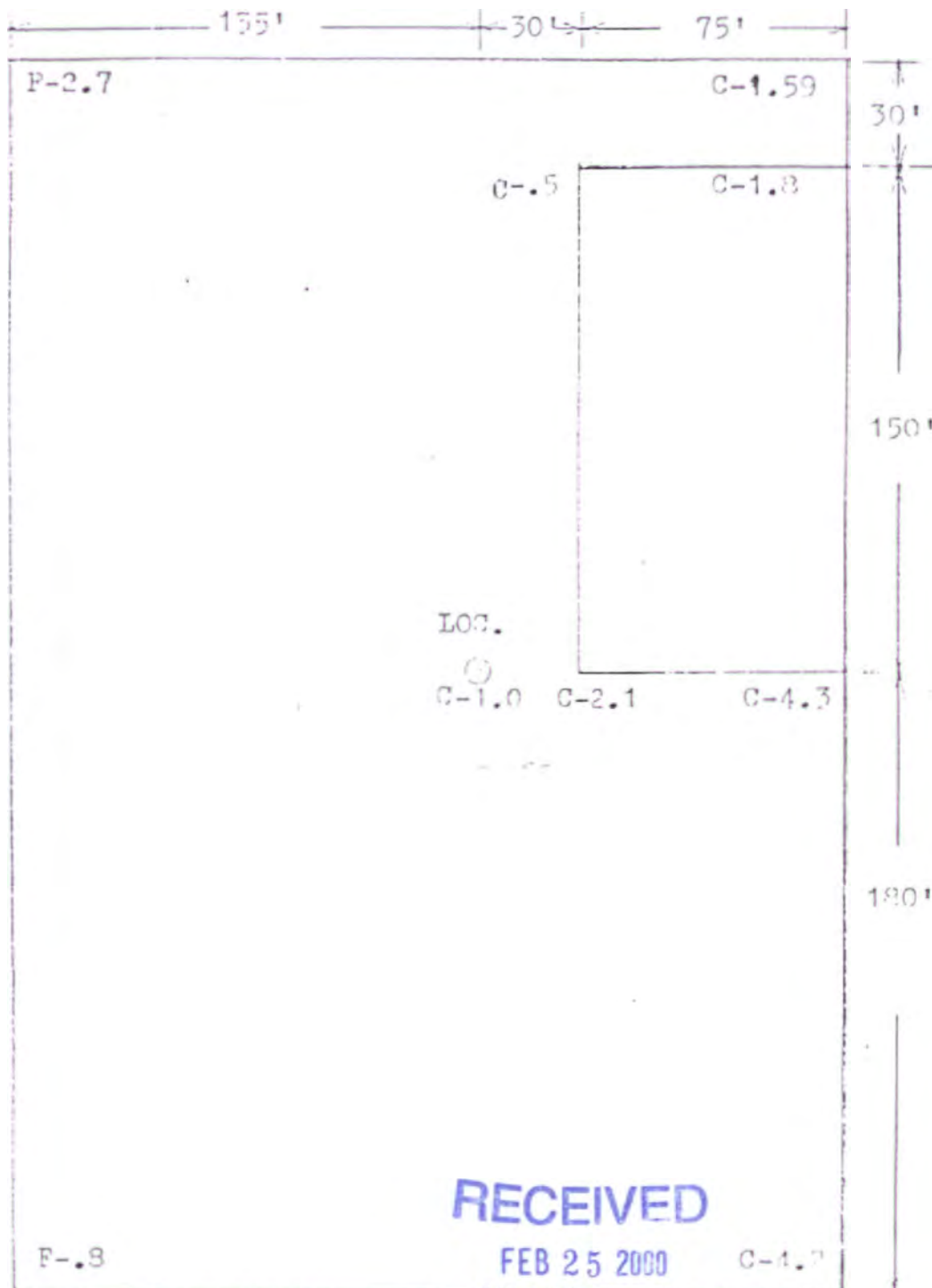
PIT & PAD LAYOUT
1" = 50'

U. S. Geological Survey

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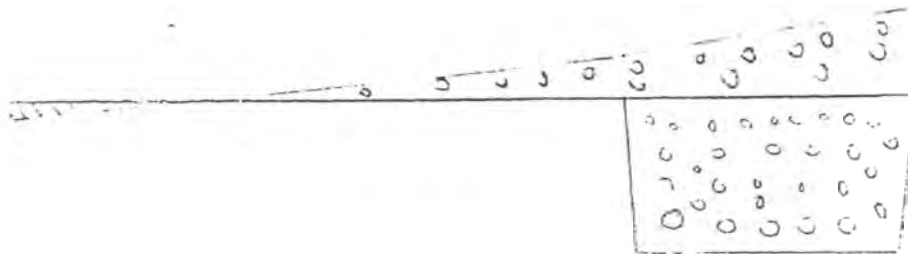
Exhibit 3
Cut & Fill

JUN 28 1981
Billings, Montana



Scale: 1' = 50' Horizontal
1' = 10' Vertical

Cut 4169 cu. yds.
Fill 1143 cu. yds.
Pit Cut 3332 cu. yds.



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Exhibit 9
Cross Section

Texas Oil & Gas Corp.
Buckles "B" #1

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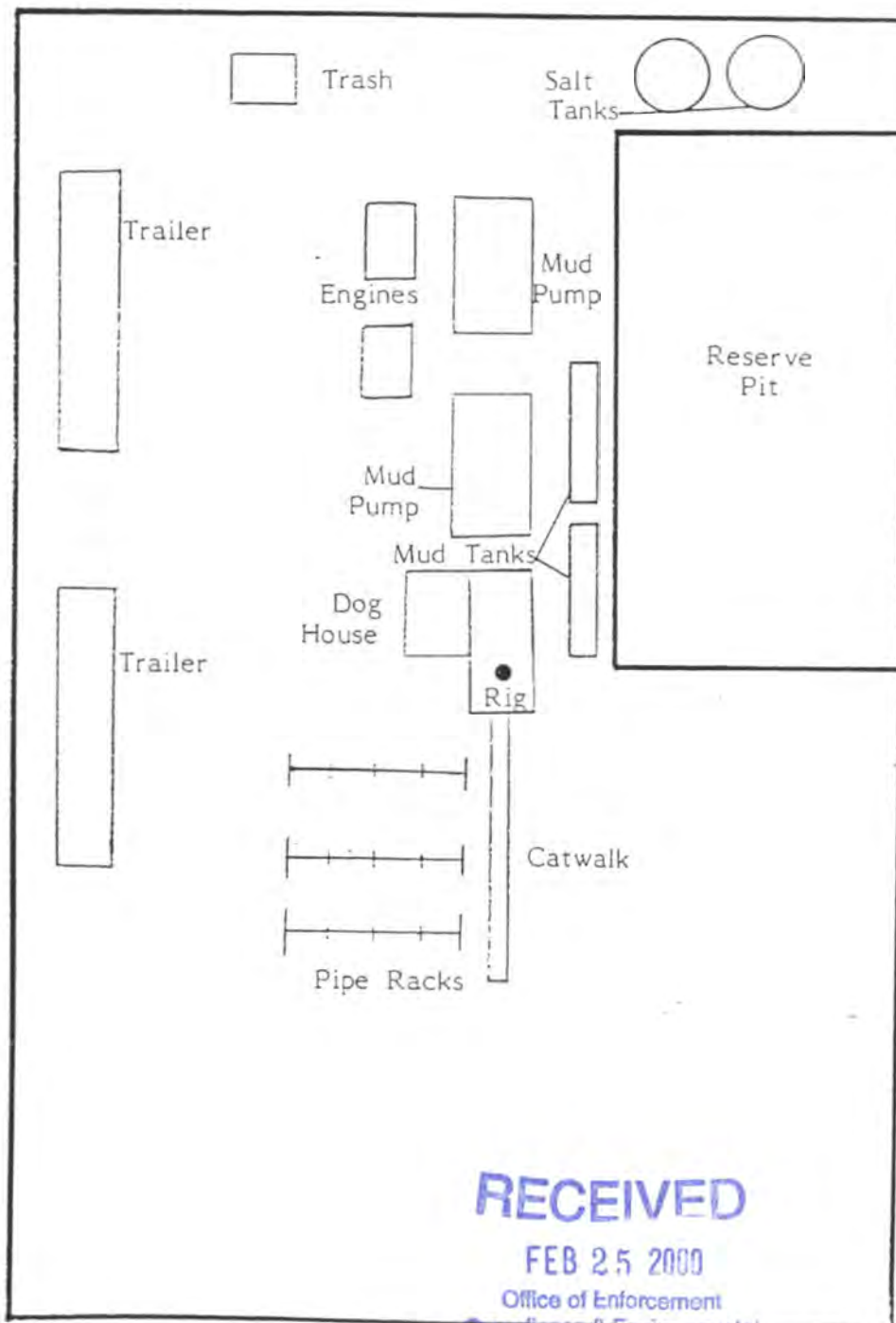
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Billings, Montana

NORTH



Scale: 1" = 50'



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Exhibit 10
Rig Layout

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Billings, Montana

9-331 C ADDENDUM
Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

1. SURFACE FORMATION: Bear Paw

2. ESTIMATED FORMATION TOPS:

Judith River	730'	Tyler	4880'
Eagle	1180'	Otter	5032'
Muddy	2978'	Kibbey Sand	5194'
Dakota	3236'	Kibbey Lime	5828'
Swift	3694'	Charles	5486'
Bierdon	4142'	Charles A	5556'
Piper	4801'	Charles B	5674'
Amsden	4748'	Charles C	5826'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Oil and Gas Zones:

Judith River	Brackish Water
Muddy	Salt Water
Dakota	Salt Water
Kibby	Salt Water
Charles	Oil

4. CASING PROGRAM AS PER FORM 9-331 C.

5. PRESSURE CONTROL EQUIPMENT:

- A. After surface casing is set, a standard two-preventer system will be utilized.
- B. The BOP equipment will be pressure-tested to 1,500 psi before drilling surface pipe cement, and will be tested for operation daily and during trips.
- C. A diagram of the proposed installation. See Exhibit 1.

6. MUD PROGRAM;

0'	-	600'	Water
600'	-	4000'	Salt Water
4000'	-	TD	Saturated Salt Gel

7. AUXILIARY EQUIPMENT:

- A. A kelly cock will be kept in the string at all times.
- B. A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string, as necessary.

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Billing, Montana

C. A gas-detecting device hot wire will be used from 3,000' to TD.

D. A desander and/or desilter will be utilized as required.

8. CORING, LOGGING, TESTING PROGRAM:

A. No coring is anticipated.

B. Possible DST in the Charles C.

C. Dual laterolog-base surface casing to T.D.

D. FDC-CNL-GR-COL - Tyler formation to T.D.

9. ABNORMAL CONDITIONS:

A. No abnormal pressures or temperatures are expected.

B. No hazardous gases such as H₂S are expected.

C. Hole sloughing and washouts may be experienced in salt sections below 4,000'.
Appropriate control measures will be exercised.

10. ANTICIPATED STARTING DATES:

Start location construction	July 10, 1981
Spud	July 15, 1981
Complete Drilling	August 5, 1981
Completed, ready for production	September 15, 1981

11. Productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced water will be contained in the drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. A completion program will be furnished after drilling and logging.

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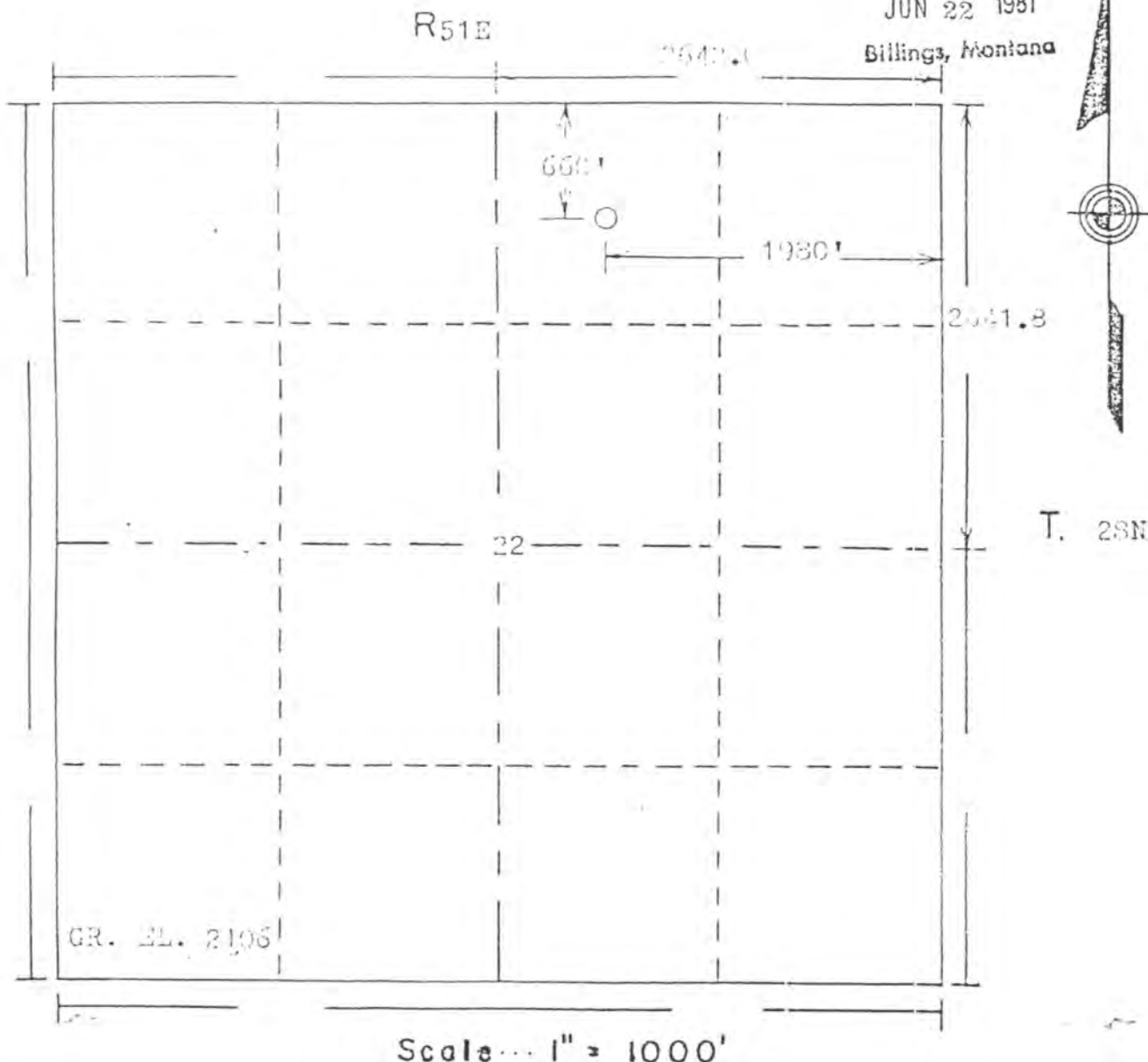


U. S. Geological Survey

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Billings, Montana



Powers Elevation of Denver, Colorado
 has in accordance with a request from Charlie Curlee
 for Texas Oil & Gas Corp.
 determined the location of Buckles B/1
 to be 660' in & 1930' to Section 22 Township 28N
 Range 51E of the Montana Principal Meridian
 Roosevelt County, Montana

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 Buckles B/1

Date 1-2-81

Licensed Land Surveyor No. 21000-416
 State of Montana

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 Justice

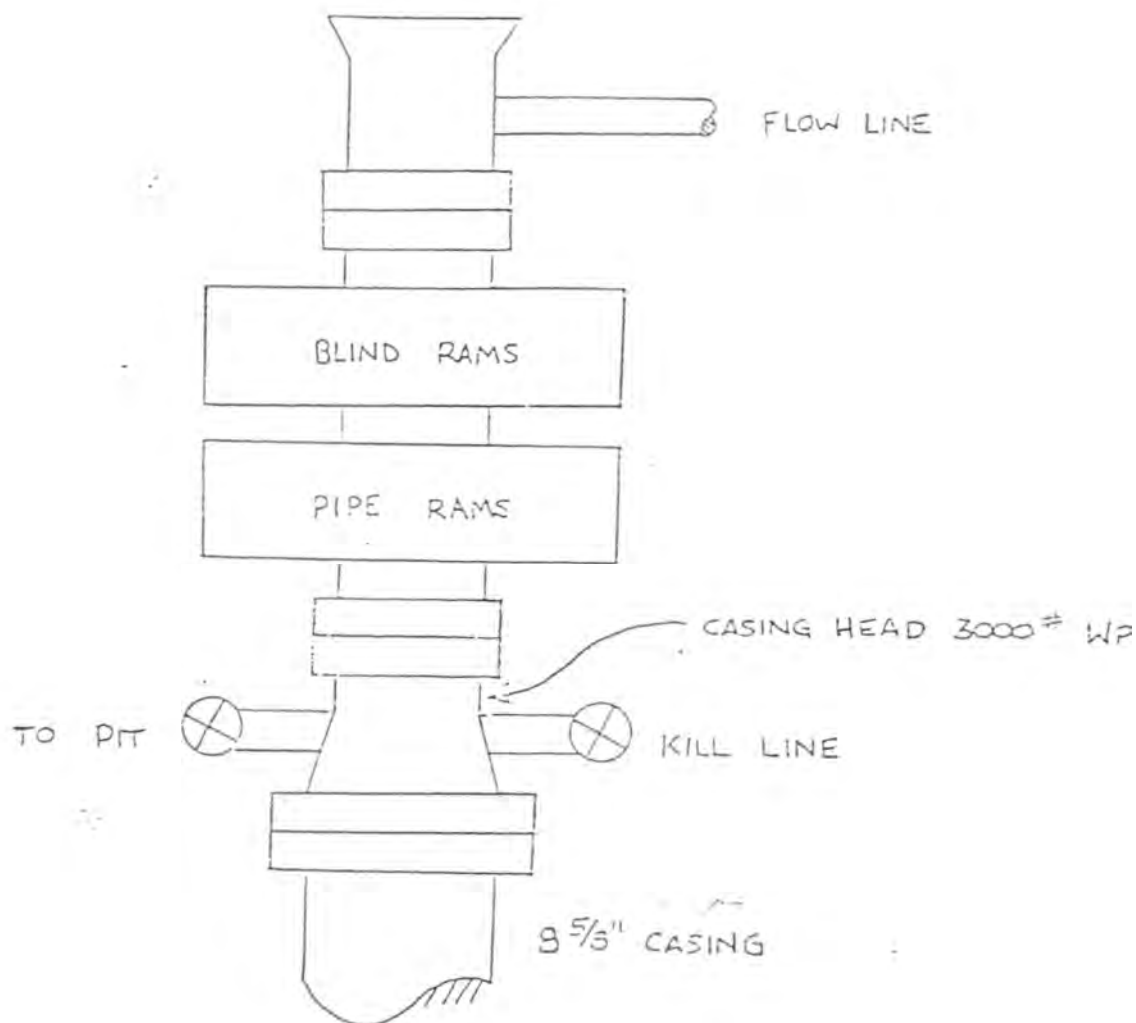
Exhibit 2
 Survey Plat

U. S. Geological Survey

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BLOWOUT PREVENTER SCHEMATIC
FOR MUD DRILLING

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Exhibit 1
Blowout Preventer



SERVICE & TESTING



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Compliance & Environmental
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RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-21-81 DEPTH 5822
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ SIT _____

OPERATOR <u>Texas Oil & Gas</u>		CONTRACTOR <u>Brud</u>		RIG NO. <u>5</u>	
ADDRESS <u>Billings</u>		ADDRESS <u>Rg</u>		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>Walt Ryan</u>		REPORT FOR MR. <u>Byron Hanson</u>		SECTION, TOWNSHIP, RANGE <u>22-28N-51E</u>	
WELL NAME AND NO. <u>Buckles #1</u>		FIELD OR BLOCK NO. <u>1st Pkbr</u>		COUNTY <u>Roosevelt</u> STATE <u>Mont</u>	
OPERATION <u>Drilling</u>		CASING <u>8 7/8 IN. at 1149 FT.</u>		MUD VOLUME (BBL) <u>373</u> PITS <u>300</u>	
PRESENT ACTIVITY <u>Drilling</u>		HOLE <u>373</u> PITS <u>300</u>		CIRCULATION DATA PUMP SIZE x IN <u>5 1/2 x 14</u> ANNULAR VEL. (FT./MIN) <u>197</u> PUMP MAKE <u>Emco</u> MODEL <u>550</u> OPPOSITE DP <u>197</u> OPPOSITE COLLAR <u>258</u>	
BIT SIZE (IN) <u>7 7/8</u> NO. <u>4</u>		INTERMEDIATE IN. at _____ FT.		TOTAL CIRCULATING VOLUME <u>673</u>	
DRILL PIPE SIZE <u>4 1/2</u> TYPE <u>KH</u>		PRODUCTION OR LINE IN. at _____ FT.		IN STORAGE	
DRILL COLLAR SIZE <u>6 1/4</u> LENGTH <u>509</u>		MUD TYPE <u>Saltwater-Starch</u>		BBL/STROKE <u>126</u> STROKE/MIN <u>64</u> BBL/MIN <u>80</u>	
SAMPLE FROM FLOWLINE _____ PIT _____		MUD PROPERTIES		DAILY COST <u>1950</u> CUMULATIVE COST <u>13,408</u>	

TIME SAMPLE TAKEN <u>0800</u>		DEPTH (FT) <u>5822</u>		WEIGHT (PPG) (LB./CU. FT) <u>10.5</u>	
WEIGHT (PPG) (LB./CU. FT) <u>10.5</u>		MUD GRADIENT (PSI/FT) <u>5.92</u>		FUNNEL VISCOSITY (SEC/QT.) API AT _____ OF <u>35</u>	
PLASTIC VISCOSITY CP AT _____ OF <u>9</u>		YIELD POINT (LB./100 SQ. FT.) <u>6</u>		GEL STRENGTH (LB./100 SQ. FT.) 10 SEC/10 MIN. <u>3-7</u>	
PH (STRIP) (METER) <u>7.0</u>		FILTRATE API (ML/30 MIN) <u>17</u>		API HT-HP FILTRATE (ML/30 MIN.) _____ OF	
CAKE THICKNESS 32nd IN. API _____ HT-HP _____		P-ALKALINITY (PF) & PM <u>2/32</u>		METHYL ORANGE ALKALINITY	
SALT (P.P.M.) (G.P.G.) <u>304,596</u> CHLORIDE (P.P.M.) (G.P.G.) <u>134,600</u>		CALCIUM (P.P.M.) (GYP (PPB)) <u>High</u>		SAND CONTENT (% BY VOL.) <u>TR</u>	
SOLIDS CONTENT (% BY VOL.) <u>3 1/2</u>		OIL CONTENT (% BY VOL.) <u>0</u>		WATER CONTENT (% BY VOL.) <u>96 1/2</u>	
METHYLENE BLUE CAPACITY (ml/ml mud) (equiv. #/Bbl. bent.) <u>Chromate</u>		_____		_____	

Remarks and Recommendations: Starch - 8-10 sv / Tour or as needed for 15-18 sv wh.
Salt - 10 sv / Tour or as needed for 35-40 vis
Salt - 30 sv / Tour
Mica - 5 sv / Tour
Fibers - 20 sv / Tour
Chromate - 1 sv on day lites
River Gravel 1" stream salt H₂O thru salt bed
Raise WT to 10.8 w/salt - Brud

SERVICE ENGINEER <u>Rich Vogel</u>		TELEPHONE <u>572-7857</u>		EXCHANGE _____	
MOBILE SERVICE _____		WHSE. NO. AND LOCATION _____		000363	

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS. HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



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Justice

REPORT NO.

DATE 8-20 19 81 DEPTH 5535
API WELL NO. STATE COUNTY WELL S/T

OPERATOR TEXAS OIL & GAS CONTRACTOR B.I.A.D. RIG NO. 5
ADDRESS BILLINGS ADDRESS RIG SPUD DATE 8-11-81
REPORT FOR MR. WALT DYER REPORT FOR MR. BYRON HANSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. W1C COUNTY ROOSEVELT STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY	DRILLING	SURFACE	8 3/4 IN. at 1149 FT.	HOLE	353	PITS	300
BIT SIZE (IN)	7 7/8	NO	4	INTERMEDIATE		TOTAL CIRCULATING VOLUME	653
DRILL PIPE SIZE	4 1/2	TYPE	X-H	PRODUCTION OR LINE		IN STORAGE	
DRILL COLLAR SIZE	6 1/4	LENGTH	509	MUD TYPE	SALT GEL - STARCH		
SAMPLE FROM		FLOWLINE	PIT	MUD PROPERTIES		DAILY COST	
FLOWLINE TEMPERATURE		134	OF			1990	
TIME SAMPLE TAKEN				9:00		CUMULATIVE COST	
DEPTH (FT)				5535		11458	
WEIGHT (PPG) (LB./CU. FT.)				10.34		MUD PROPERTIES SPECIFICATIONS	
MUD GRADIENT (PSI/FT)				.5356		WEIGHT 10.4 VISCOSITY 35-38 FILTRATE 19-17	
FUNNEL VISCOSITY (SEC./QT.) API AT		OF		34		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
PLASTIC VISCOSITY CP AT		OF		7		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
YIELD POINT (LB./100 SQ. FT.)				9		STARCH - 8 SX/TOUR OR AS NEEDED FOR 15 TO 17 WH.	
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC/10 MIN.				4-7		SALT GEL - 10 SX/TOUR OR AS NEEDED FOR 35-38 U.S.	
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER				7.0		SALT - 30-35 SX/TOUR	
FILTRATE API (ML/30 MIN)				15		MICA - 5 SX/TOUR	
API HT-HP FILTRATE (ML/30 MIN.)		OF				CHROMATE - 1/2 SX/ DAYLIGHTS ONLY	
CAKE THICKNESS 32nd IN. API		HT-HP		292		CEDAR FIBER - 2 SX/TOUR	
P-ALKALINITY (PF.) & PM						RUN 1" STREAM SALT H2O WHILE DRILLING	
METHYL ORANGE ALKALINITY							
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. 303600		CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. 184,000					
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)				HUY			
SAND CONTENT (% BY VOL)				TR			
SOLIDS CONTENT (% BY VOL)				364			
OIL CONTENT (% BY VOL)				0			
WATER CONTENT (% BY VOL)				96.4			
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.)							
		CHROMATE		900			

Remarks and Recommendations:

STARCH - 31
SALT GEL - 39
SALT - 70
MICA - 20
CHROMATE - 1/2 SX
CEDAR FIBER 8

By V. D. ... 572-7857 WILL. ND. 000554
SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHE. NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT
NO.

DATE 8-20 19 81 DEPTH 5535

API WELL NO. STATE COUNTY WELL S/T

OPERATOR <u>TEXAS OIL & GAS</u>		CONTRACTOR <u>B.A.D.</u>		RIG NO. <u>5</u>	
ADDRESS <u>BILLINGS</u>		ADDRESS <u>RIG</u>		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>WAIT DYER</u>		REPORT FOR MR. <u>BYRON HANSON</u>		SECTION, TOWNSHIP, RANGE <u>21-28N-51E</u>	
WELL NAME AND NO. <u>MEHEC #1</u>		FIELD OR BLOCK NO. <u>W1C</u>		COUNTY <u>ROUSSEAU</u> STATE <u>MONT</u>	
OPERATION		CASING		MUD VOLUME (BBL)	
PRESENT ACTIVITY <u>NAHAC</u>		SURFACE <u>35 1/2 IN. at 1149 FT.</u>		HOLE <u>353</u> PITS <u>300</u>	
BIT SIZE (IN) <u>7 7/8</u>		NO. <u>4</u>		INTERMEDIATE <u> </u> IN. at <u> </u> FT.	
DRILL PIPE SIZE <u>4 1/2</u>		TYPE <u>X-11</u>		PRODUCTION OR LINE <u> </u> IN. at <u> </u> FT.	
DRILL COLLAR SIZE <u>6 1/2</u> LENGTH <u>509</u>		MUD TYPE <u>GALT GEL - 9THACH</u>		IN STORAGE	
PUMP SIZE <u>5 1/2</u> X <u>14</u> IN.		ANNULAR VEL. (FT/MIN) <u>197</u>		OPPOSITE DP <u>358</u>	
PUMP MAKE <u>FRSU</u>		MODEL <u>550</u>		OPPOSITE COLLAR <u>358</u>	
BBU STROKE <u>126</u> STROKE/MIN <u>64</u>		CIRCULATING PRESSURE PSI <u>8.00</u>		BOTTOMS UP (MIN) <u>114</u>	
BBU MIN <u>8.0</u>		SYSTEM TOTAL (MIN) <u>81</u>			

SAMPLE FROM <u>✓</u> FLOWLINE <u> </u> PIT <u> </u>		MUD PROPERTIES	
FLOWLINE TEMPERATURE <u>134</u> OF			
TIME SAMPLE TAKEN		<u>9:00</u>	
DEPTH (FT.)		<u>5535</u>	
WEIGHT (PPG) (LB/BU. FT.)		<u>10.34</u>	
MUD GRADIENT (PSI/FT.)		<u>5356</u>	
FUNNEL VISCOSITY (SEC/QT.) API AT <u> </u> OF		<u>34</u>	
PLASTIC VISCOSITY CP AT <u> </u> OF		<u>7</u>	
YIELD POINT (LB/100 SQ. FT.)		<u>9</u>	
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN.		<u>4-7</u>	
PH <u>7</u> STRIP <u> </u> METER		<u>7.0</u>	
FILTRATE API (ML/30 MIN.)		<u>15</u>	
API HT-HP FILTRATE (ML/30 MIN.) <u> </u> OF		<u> </u>	
CAKE THICKNESS 32nd IN. API <u> </u> HT-HP <u> </u>		<u>397</u>	
P-ALKALINITY (PF) <u>8</u> PM		<u> </u>	
METHYL ORANGE ALKALINITY		<u> </u>	
SALT <u>30360.0</u> G.P.G. CHLORIDE <u>184.00</u> G.P.G.			
CALCIUM <u>400</u> G.P.M. GYP (PPB)		<u>400</u>	
SAND CONTENT (% BY VOL.)		<u>TR</u>	
SOLIDS CONTENT (% BY VOL.)		<u>344</u>	
OIL CONTENT (% BY VOL.)		<u>0</u>	
WATER CONTENT (% BY VOL.)		<u>96.4</u>	
METHYLENE BLUE CAPACITY <u> </u> (ml/ml mud) <u> </u> (equiv. #Bbl. bent.)		<u> </u>	
CHLORIDE <u>900</u>			

Remarks and Recommendations:

STARCH - 3.1
SALT GEL - 3.9
SALT - 7.0
MICA - 2.0
CHLORIDE - 4.5
CEDAR FIBER - 8

R. L. W. D.
701-7857
WILLISTON
000585

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION
ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER
SO ELECTS; HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS,
AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO.

DATE 8-19 1981 DEPTH 5194
API WELL NO. STATE COUNTY WELL ST

OPERATOR <u>TEXAS OIL & GAS</u>		CONTRACTOR <u>B.I.R.P.</u>		RIG NO. <u>5</u>	
ADDRESS <u>BILLINGS</u>		ADDRESS <u>RIG</u>		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>WALT DYER</u>		REPORT FOR MR. <u>BYRON HANSON</u>		SECTION, TOWNSHIP, RANGE <u>22-28N-51E</u>	
WELL NAME AND NO. <u>BURKLES #1</u>		FIELD OR BLOCK NO. <u>W/C</u>		COUNTY <u>ROOSEVELT</u>	
				STATE <u>MONT</u>	
OPERATION <u>DRILLING</u>		CASING <u>8 5/8 IN. at 1149 FT.</u>		MUD VOLUME (BBL) <u>332</u>	
PRESENT ACTIVITY <u>DRILLING</u>		SURFACE <u>8 5/8 IN. at 1149 FT.</u>		HOLE PITS <u>332 300</u>	
BIT SIZE (IN) <u>7 7/8</u>		NO. <u>4</u>		INTERMEDIATE <u>IN. at FT.</u>	
DRILL PIPE SIZE <u>4 1/2</u>		TYPE <u>A-11</u>		PRODUCTION OR LINE <u>IN. at FT.</u>	
DRILL COLLAR <u>6 1/2</u>		LENGTH <u>509</u>		MUD TYPE <u>SALT GEL - STARCH</u>	
SAMPLE FROM <u>FLOWLINE</u>		PIT		MUD PROPERTIES	
FLOWLINE TEMPERATURE <u>132</u> OF					
TIME SAMPLE TAKEN <u>7:30</u>					
DEPTH (FT) <u>5194</u>					
WEIGHT (PPG) (LB/BU. FT) <u>10.4</u>					
MUD GRADIENT (PSI/FT) <u>5408</u>					
FUNNEL VISCOSITY (SEC/QT.) API AT <u>33</u> OF					
PLASTIC VISCOSITY CP AT <u>6</u> OF					
YIELD POINT (LB/100 SQ. FT.) <u>8</u>					
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. <u>3-6</u>					
PH <input checked="" type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>					
FILTRATE API (ML/30 MIN) <u>1.7</u>					
API HT-HP FILTRATE (ML/30 MIN.) OF					
CAKE THICKNESS 32nd IN. API HT-HP <u>3/2</u>					
P-ALKALINITY (PF.) & PM					
METHYL ORANGE ALKALINITY					
SALT <input checked="" type="checkbox"/> P.P.M. <u>290400</u> CHLORIDE <input checked="" type="checkbox"/> P.P.M. <u>176,000</u>					
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)					
SAND CONTENT (% BY VOL.) <u>TR</u>					
SOLIDS CONTENT (% BY VOL.) <u>3 1/2</u>					
OIL CONTENT (% BY VOL.) <u>0</u>					
WATER CONTENT (% BY VOL.) <u>96 1/2</u>					
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent.)					
<u>CHROMATE</u>					

DAILY COST 1279 CUMULATIVE COST 9468

MUD PROPERTIES SPECIFICATIONS
WEIGHT 10.5 VISCOSITY 30-33 FILTRATE
BY AUTHORITY: ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR
☐ OPERATOR'S REPRESENTATIVE ☐ OTHER

STARCH - 8 SX/TOUR OR AS NEEDED
FOR 15-17 W/L
SALT GEL - 10 SX/TOUR

SALT - KEEP SALT PAIL FULL WITH
1" STREAM THRU IT (APPROX 25 SX/TOUR)

MICA - 5 SX/TOUR

CHROMATE 5 SX/TOUR DAY LITES ONLY

RUN GOOD 1" STREAM SALT H₂O

DUMP AND CLEAN PITS AS NEEDED

Remarks and Recommendations:

STARCH - 24
SALT GEL - 28
SALT - 34
CHROMATE - 1

572-7857 WILLIAM 000566

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION
ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER
SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS
AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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FEB 25 1981

Office of Enforcement
Compliance & Environmental
JusticeREPORT
NO.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857DATE 0-19 1981 DEPTH 5194
API WELL NO. STATE COUNTY WELL S/T

OPERATOR TEXAS OIL & GAS		CONTRACTOR B. AD		RIG NO. 5	
ADDRESS BILLINGS		ADDRESS RIG		SPUD DATE 8-11-81	
REPORT FOR MR. WALT DYER		REPORT FOR MR. BYRON HANSON		SECTION, TOWNSHIP, RANGE 22-22N-51E	
WELL NAME AND NO. ARTLES H 1		FIELD OR BLOCK NO. WIC		COUNTY ROOSEVELT	
				STATE MONT	
OPERATION DRILLING		CASING		MUD VOLUME (BBL)	
PRESENT ACTIVITY DRILLING		SURFACE 0.76 IN. at 1149 FT.		HOLE PITS 332 300	
BIT SIZE (IN) 7 7/8		NO. 11		INTERMEDIATE IN. at FT.	
DRILL PIPE SIZE 4 1/2		TYPE X-14		TOTAL CIRCULATING VOLUME 632	
DRILL COLLAR SIZE 6L		LENGTH 509		MUD TYPE SALT GEL - STARCH	
SAMPLE FROM FLOWLINE		PIT		MUD PROPERTIES	
FLOWLINE TEMPERATURE 132 OF				DAILY COST 1279	
				CUMULATIVE COST 9468	
TIME SAMPLE TAKEN 7:30		DEPTH (FT) 5194		WEIGHT 10.5	
WEIGHT (PPG) (LB/BU. FT.) 10.4		MUD GRADIENT (PSI/FT) 5408		VISCOSITY 30-33	
FUNNEL VISCOSITY (SEC/QT.) API AT OF 33		PLASTIC VISCOSITY CP AT OF 6		FILTRATE	
YIELD POINT (LB/100 SQ. FT.) 8		GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. 3-6		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
PH <input checked="" type="checkbox"/> STRIP <input type="checkbox"/> METER 7.0		FILTRATE API (ML/30 MIN) 1.7		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
CAKE THICKNESS 32nd IN. API HT-HP 332		P-ALKALINITY (PF) & PM 1		STARCH - 8 SY/TON OR AS NEEDED	
METHYL ORANGE ALKALINITY: SALT <input checked="" type="checkbox"/> P.P.M. 290400 CHLORIDE <input checked="" type="checkbox"/> P.P.M. 176,000		CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB) 1144		FOR 15-17 WL.	
SAND CONTENT (% BY VOL.) TR		SOLIDS CONTENT (% BY VOL.) 3 1/2		SALT GEL - 10 SY/TON	
OIL CONTENT (% BY VOL.) 0		WATER CONTENT (% BY VOL.) 96 1/2		SALT - KEEP SALT AOK FULL WITH	
METHYLENE BLUE CAPACITY (ml/ml mud) (equiv. #/Bbl. bent.) 900				1" STREAM THRU IT (APPROX 23 SY/TON)	
				MICH - 5 SY/TON	
				CHROMATE 4 SY/TON DAY LITES ONLY	
				RUN GOOD 1" STREAM SALT H ₂ O	
				PUMP AND CLEAN PITS AS NEEDED	

Remarks and Recommendations:

STARCH - 24
SALT GEL - 28
SALT - 34
CHROMATE - 1

SERVICE ENGINEER Tom H. Huns	TELEPHONE 572-7857	EXCHANGE 11466 RD.	MOBILE SERVICE 000567	WHSE. NO. AND LOCATION
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ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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Office of Enforcement
Compliance & Environmental
Justice

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-19-81 DEPTH 14993

API WELL NO. STATE COUNTY WELL S/T

OPERATOR TEXAS OIL & GAS CONTRACTOR BIRD RIG NO. 5
ADDRESS BILLINGS ADDRESS RIG SPUD DATE 8-11-81
REPORT FOR MR. WALT DYER REPORT FOR MR. BYRON ANDERSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. Buckles #1 FIELD OR BLOCK NO. WIC COUNTY ROOSEVELT STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PUMP SIZE x IN	ANNULAR VEL. (FT./MIN)	OPPOSITE DP	OPPOSITE COLLAR	CIRCULATING PRESSURE PSI	BOTTOMS UP (MIN)	SYSTEM TOTAL (MIN)	
55 x 14	197	358	900	37	75		
PUMP MAKE MODEL	BBL/STROKE	STROKE/MIN					
550	126	64					
BBL/MIN							
8.0							

SAMPLE FROM FLOWLINE PIT MUD PROPERTIES
FLOWLINE TEMPERATURE 130 OF

TIME SAMPLE TAKEN		MUD PROPERTIES SPECIFICATIONS	
DEPTH (FT)	4993	WEIGHT 10.5	VISCOSITY 30-32
WEIGHT (PPG) (LB./CU. FT)	10.5	FILTRATE 20 CC	
MUD GRADIENT (PSI/FT)	0.546	BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
FUNNEL VISCOSITY (SEC./QT.) API AT OF	33	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
PLASTIC VISCOSITY CP AT OF	6	STARCH - 8% 9X/ TOVA AS NEEDED FOR 15WL	
YIELD POINT (LB./100 SQ. FT.)	6	SALT - KEEP SALT PAIL FULL WITH 1" STREAM THRU IT (APPROX 25 SX/TOVA)	
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN.	4-6	SALT GEL - 10 SX/ TOVA	
PH <input checked="" type="checkbox"/> STRIP <input type="checkbox"/> METER	70	MICA - 5 SX/ TOVA	
FILTRATE API (ML/30 MIN)	24	CHROMATE - 5 SX/ DRYLITES ONLY	
API HT-HP FILTRATE (ML/30 MIN.) OF		RUN 1" STREAM SALT H2O	
CAKE THICKNESS 32nd IN. API HT-HP	252	DUMP AND CLEAN PITS AS NEEDED.	
P-ALKALINITY (PF.) & PM			
METHYL ORANGE ALKALINITY			
SALT <input checked="" type="checkbox"/> P.P.M. 293200 CHLORIDE <input checked="" type="checkbox"/> P.P.M. 178,000			
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)	HUY		
SAND CONTENT (% BY VOL.)	TR		
SOLIDS CONTENT (% BY VOL.)	35		
OIL CONTENT (% BY VOL.)	0		
WATER CONTENT (% BY VOL.)	964		
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.)			
CHROMATE	900		

Remarks and Recommendations:

STARCH - 24
SALT GEL - 22
SALT - 40
CHROMATE - 1

Handwritten signature

SERVICE ENGINEER TELEPHONE 572-7857 EXCHANGE WILLIAMS WHSE. NO. AND LOCATION 000008

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO.

DATE 8-19-81 19 81 DEPTH 4993

API WELL NO. STATE COUNTY WELL S/T

OPERATOR TEXAS M.L. & GAS CONTRACTOR BIRD RIG NO. 5

ADDRESS BILLINGS ADDRESS RIG SPUD DATE 8-11-81

REPORT FOR MR. WAIT DYER REPORT FOR MR. BUSSON ANDERSON SECTION, TOWNSHIP, RANGE R. 2 - 28 N. - 51 E

WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. 1116 COUNTY ROOSEVELT STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY DAILING		SURFACE 350 IN. at 1149 FT.		HOLE 208 PITS 300		PUMP SIZE 55 x 14	
BIT SIZE (IN) 7 7/8		INTERMEDIATE IN. at FT.		TOTAL CIRCULATING VOLUME 598		PUMP MAKE F-800 MODEL 550	
DRILL PIPE SIZE 1 1/2 TYPE X-H		PRODUCTION OR LINE IN. at FT.		IN STORAGE		BBL/STROKE 12.6 STROKE/MIN 64	
DRILL COLLAR SIZE 6 1/2 LENGTH 50.9		MUD TYPE GALT 361 STARCH		BBL/MIN 8.0		CIRCULATING PRESSURE PSI 400	
						BOTTOMS UP (MIN) 3.7	
						SYSTEM TOTAL (MIN) 75	

SAMPLE FROM FLOWLINE PIT. MUD PROPERTIES DAILY COST 1219 CUMULATIVE COST 819.9

TIME SAMPLE TAKEN		DEPTH (FT)		WEIGHT (PPG) (LB/BU. FT)		MUD GRADIENT (PSI/FT)		FUNNEL VISCOSITY (SEC/QT.) API AT °F		PLASTIC VISCOSITY CP AT °F		YIELD POINT (LB/100 SQ. FT)		GEL STRENGTH (LB/100 SQ. FT) 10 SEC/10 MIN		PH STRIP METER		FILTRATE API (ML/30 MIN)		API HT-HP FILTRATE (ML/30 MIN) °F		CAKE THICKNESS 32nd IN. API HT-HP		P-ALKALINITY (PF) 8 PM		METHYL ORANGE ALKALINITY		SALT G.P.P.M. 293700 CHLORIDE G.P.P.M. 1.78010		CALCIUM G.P.P.M. GYP (PPB)		SAND CONTENT (% BY VOL)		SOLIDS CONTENT (% BY VOL)		OIL CONTENT (% BY VOL)		WATER CONTENT (% BY VOL)		METHYLENE BLUE CAPACITY (ml/ml mud) (equiv. #Bbl. bent.)			
8:30		4993		10.5		0.546		3.3		6		6		1-6		70		24		/		292		/		/		/		/		/		/		/		/		/		/	
STARCH - 24		SALT GEL - 22		SALT - 40		CHROMATE - 1																																					

Remarks and Recommendations:

STARCH - 24
SALT GEL - 22
SALT - 40
CHROMATE - 1

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS. HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



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FEB 25 2000

Office of Enforcement
Compliance & Environment
Justice

NO.

DATE 8-17-81 1981 DEPTH 4664
API WELL NO. STATE COUNTY WELL S/T

OPERATOR TEXAS OIL & GAS		CONTRACTOR BIRD		RIG NO. 5	
ADDRESS BILLING 3		ADDRESS BIC		SPUD DATE 8-11-81	
REPORT FOR MR. WALT DYER		REPORT FOR MR. BYRON HANSON		SECTION, TOWNSHIP, RANGE 22-28N-51E	
WELL NAME AND NO. BUCKLES #1		FIELD OR BLOCK NO. W/C		COUNTY ROOSEVELT	
				STATE MONT	
OPERATION DRILLING		CASING 8 5/8 IN. at 1149 FT.		MUD VOLUME (BBL) 294	
PRESENT ACTIVITY DRILLING		SURFACE 8 5/8 IN. at 1149 FT.		HOLE PITS 294 200	
BIT SIZE (IN) 7 7/8		NO. 3		INTERMEDIATE IN. at FT.	
DRILL PIPE SIZE 4 1/2		TYPE X-4		PRODUCTION OR LINE IN. at FT.	
DRILL COLLAR 6 1/2		LENGTH 309		MUD TYPE SALT GEL - STARCH	
SAMPLE FROM FLOWLINE		PIT 0F		MUD PROPERTIES	
FLOWLINE TEMPERATURE 128				DAILY COST 1200	
				CUMULATIVE COST 6940	
TIME SAMPLE TAKEN 10:00		DEPTH (FT) 4664		WEIGHT 10.5	
WEIGHT (PPG) (LB/CU. FT) 10.5		MUD GRADIENT (PSI/FT) 0.546		VISCOSITY 3032	
FUNNEL VISCOSITY (SEC/QT.) API AT 34		PLASTIC VISCOSITY CP AT 11		FILTRATE 2000	
YIELD POINT (LB/100 SQ. FT.) 7		GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. 3-7		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
PH <input checked="" type="checkbox"/> STRIP <input type="checkbox"/> METER 7.0		FILTRATE API (ML/30 MIN) 18		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
API HT-HP FILTRATE (ML/30 MIN.) 0F		CAKE THICKNESS 32nd IN. API HT-HP 6.52		STARCH - 5 SK/TON OR AS NEEDED	
P-ALKALINITY (PF.) & PM 178.000		METHYL ORANGE ALKALINITY 178.000		FOR 2000 WL	
SALT <input type="checkbox"/> P.P.M. 243700 CHLORIDE <input type="checkbox"/> P.P.M. 178.000		CALCIUM <input type="checkbox"/> P.P.M. 1404		SALT GEL - 5 SK/TON	
SAND CONTENT (% BY VOL) TR		SOLIDS CONTENT (% BY VOL) 3 1/2		CHROMATE - 1 SK/DAYTES ONLY	
OIL CONTENT (% BY VOL) 0		WATER CONTENT (% BY VOL) 96 1/2		SALT - KEEP SALT MOL FILL WITH 1" STREAM SALT H2O THRU IT.	
METHYLENE BLUE CAPACITY (ml/ml mud) 950				RUN 1" STREAM SALT H2O	
				DUMP & CLEAN PITS AS NEEDED	

Remarks and Recommendations:

DE-FILTER WT. UNDER - 11.7
RESERVE PIT H2O 134,000 CHLOR
221,100 - SALT
STARCH - 21
SALT GEL - 34
SALT - 25
CHROMATE - 1

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION
572-7857 WILL. NO. 003-770

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

REPORT
NO.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



DATE 8-17 19 91 DEPTH 11664
API WELL NO. STATE COUNTY WELL S/T

OPERATOR <u>TEXAS OIL & GAS</u>		CONTRACTOR <u>BIAD</u>		RIG NO. <u>5</u>	
ADDRESS <u>WILLING S</u>		ADDRESS <u>AIC</u>		SPUD DATE <u>NR 5/11/81</u>	
REPORT FOR MR. <u>WALT OVER</u>		REPORT FOR MR. <u>AVON HANSON</u>		SECTION, TOWNSHIP, RANGE <u>22-28N-51E</u>	
WELL NAME AND NO. <u>BUCKLE #1</u>		FIELD OR BLOCK NO. <u>W/C</u>		COUNTY <u>ROOSEVELT</u> STATE <u>ND</u>	
OPERATION <u>DRILLING</u>		CASING <u>8 5/8 IN. at 1149 FT.</u>		MUD VOLUME (BBL) <u>294</u> PITS <u>300</u>	
PRESENT ACTIVITY <u>DRILLING</u>		SURFACE <u>8 5/8 IN. at 1149 FT.</u>		HOLE <u>294</u> PITS <u>300</u>	
BIT SIZE (IN) <u>7 1/4</u> NO. <u>3</u>		INTERMEDIATE <u>IN. at</u> FT.		TOTAL CIRCULATING VOLUME <u>5911</u>	
DRILL PIPE SIZE <u>4 1/2</u> TYPE <u>X-4</u>		PRODUCTION OR LINE <u>IN. at</u> FT.		IN STORAGE	
DRILL COLLAR SIZE <u>6 1/2</u> LENGTH <u>509</u>		MUD TYPE <u>SALT GEL - STARCH</u>		BBL/STROKE <u>126</u> STROKE/MIN <u>64</u>	
SAMPLE FROM FLOWLINE PIT		FLOWLINE TEMPERATURE <u>128</u> °F		DAILY COST <u>1200</u>	
TIME SAMPLE TAKEN <u>10:00</u>		MUD PROPERTIES		CUMULATIVE COST <u>6940</u>	
DEPTH (FT) <u>11664</u>		WEIGHT <u>10.5</u>		MUD PROPERTIES SPECIFICATIONS	
WEIGHT <u>10.5</u> (PPG) (LB/BU. FT)		VISCOUSITY <u>30-32</u>		FILTRATE <u>20 cc</u>	
MUD GRADIENT (PSI/FT) <u>0.546</u>		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
FUNNEL VISCOSITY (SEC/QT.) API AT <u>34</u> °F		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			
PLASTIC VISCOSITY CP AT <u>11</u> °F		<u>STARCH - 5 SV/TONN OR AS NEEDED</u>			
YIELD POINT (LB/100 SQ. FT.) <u>7</u>		<u>FOR 20 cc WL</u>			
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. <u>3-7</u>		<u>SALT GEL - 5 SV/TONN</u>			
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>		<u>CARBONATE - 1 SV DAPIEC ONLY</u>			
FILTRATE API (ML/30 MIN) <u>18</u>		<u>SALT - KEEP SALT ADD FULL PITCH</u>			
API HT-HP FILTRATE (ML/30 MIN.) <u>OF</u>		<u>1" STREAM SALT H₂O THEN IT</u>			
CAKE THICKNESS 32nd IN. API HT-HP <u>262</u>		<u>RUN 1" STREAM SALT H₂O</u>			
P-ALKALINITY (PF) & PM		<u>DUMP & CLEAN P.T.S AS NEEDED</u>			
METHYL ORANGE ALKALINITY					
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>293700</u> CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>178000</u>					
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)					
SAND CONTENT (% BY VOL.)					
SOLIDS CONTENT (% BY VOL.)					
OIL CONTENT (% BY VOL.)					
WATER CONTENT (% BY VOL.)					
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.)					
<u>CARBONATE</u> <u>950</u>					

Remarks and Recommendations:

STARCH - 21
SALT GEL - 34
SALT - 25
CARBONATE - 1

DE-FILTER WT. UNDER - 11.7
PREPARE PIT H₂O 134,000 CHICK
221,100 - SALT

SERVICE ENGINEER Walt Over TELEPHONE 571-7857 EXCHANGE WILL. NO. MOBILE SERVICE 003.771 WHSE. NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS; HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RECEIVED

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

REPORT NO.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



DATE 8-16-91 DEPTH 4300
API WELL NO. STATE COUNTY WELL S/T

OPERATOR Texas Oil & Gas CONTRACTOR Burd RIG NO. 5
ADDRESS Billings ADDRESS SPUD DATE 8-11-81
REPORT FOR MR. Walt Dyer REPORT FOR MR. SECTION, TOWNSHIP, RANGE
22 - 28N - 51E

WELL NAME AND NO. Bushles #1 FIELD OR BLOCK NO. W/C COUNTY Roosevelt STATE Mont

OPERATION		CASING	MUD VOLUME (BBL)	CIRCULATION DATA	
PRESENT ACTIVITY <u>Pack Survey</u>		SURFACE <u>8 7/8 IN. at 1149 FT.</u>	HOLE <u>272</u> PITS <u>300</u>	PUMP SIZE x IN <u>5 1/2 x 14</u>	ANNULAR VEL. (FT./MIN) <u>197</u>
BIT SIZE (IN) <u>2 7/8</u>	NO <u>3</u>	INTERMEDIATE <u></u>	TOTAL CIRCULATING VOLUME <u>572</u>	PUMP MAKE <u>Ensco</u>	OPPOSITE DP <u>358</u>
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>KH</u>	PRODUCTION OR LINE <u></u>	IN STORAGE <u></u>	MODEL <u>550</u>	OPPOSITE COLLAR <u>900</u>
DRILL COLLAR SIZE <u></u>	LENGTH <u></u>	MUD TYPE <u>Salt Gel - Starch</u>	BBL/STROKE <u>126</u> STROKE/MIN <u>64</u>	BBL/MIN <u>80</u>	CIRCULATING PRESSURE PSI <u>33</u>
					BOTTOMS UP (MIN) <u>21</u>
					SYSTEM TOTAL (MIN) <u>21</u>

SAMPLE FROM FLOWLINE PIT MUD PROPERTIES
FLOWLINE TEMPERATURE OF

TIME SAMPLE TAKEN 0800
DEPTH (FT) 4300
WEIGHT ☐ (PPG) ☐ (LB/CU. FT.) 10.5
MUD GRADIENT (PSI/FT) 1.5408

FUNNEL VISCOSITY (SEC./QT.) API AT OF 32
PLASTIC VISCOSITY CP AT OF 7
YIELD POINT (LB/100 SQ. FT.) 5

GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. 2-3
PH ☐ STRIP ☐ METER 7.0

FILTRATE API (ML/30 MIN) 18.0
API HT-HP FILTRATE (ML/30 MIN.) OF

CAKE THICKNESS 32nd IN. API HT-HP 2 1/2
P-ALKALINITY (PF.) & PM

METHYL ORANGE ALKALINITY
SALT ☐ P.P.M. 277,200 CHLORIDE ☐ P.P.M. 168,000
☐ G.P.G. ☐ G.P.G.

CALCIUM ☐ P.P.M. ☐ GYP (PPB)
SAND CONTENT (% BY VOL) TR

SOLIDS CONTENT (% BY VOL) 3 1/2
OIL CONTENT (% BY VOL) 0
WATER CONTENT (% BY VOL) 96 1/2

METHYLENE BLUE CAPACITY ☐ (ml/ml mud)
☐ (equiv. #/Bbl. bent.)

Chronicle 950

Remarks and Recommendations:

Starch - 37
S Gel - 11
Salt - 28
Bardol - 2

Rick Vestal 572-7857 Williston 000-72
SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE W/SE NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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Office of Enforcement
Compliance & Environmental
Justice

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-16-81 DEPTH 4300
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR <u>Texas Oil & Gas</u>		CONTRACTOR <u>Burd</u>		RIG NO. <u>5</u>	
ADDRESS <u>Billings</u>		ADDRESS		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>Walt Dyer</u>		REPORT FOR MR.		SECTION, TOWNSHIP, RANGE <u>22 - 28N - 51E</u>	
WELL NAME AND NO. <u>Burdles #1</u>		FIELD OR BLOCK NO. <u>W/L</u>		COUNTY <u>Roosevelt</u> STATE <u>Mont</u>	
OPERATION		CASING		MUD VOLUME (BBL)	
PRESENT ACTIVITY <u>Pack Survival</u>		SURFACE <u>8 1/2" IN. at 1419 FT.</u>		HOLE PITS <u>272 300</u>	
BIT SIZE (IN) <u>2 7/8</u> NO. <u>3</u>		INTL. DIAMETER <u>IN. at FT.</u>		TOTAL CIRCULATING VOLUME <u>572</u>	
DRILL PIPE SIZE <u>4 1/2</u> TYPE <u>XH</u>		PRODUCTION OR LINE <u>IN. at FT.</u>		IN STORAGE	
DRILL COLLAR SIZE		MUD TYPE <u>Salt Gel - Starch</u>		PUMP SIZE x IN. <u>5 1/2 x 14</u>	
LENGTH				PUMP MAKE <u>Emisco</u>	
				MODEL <u>550</u>	
				BBL/STROKE <u>126</u> STROKE/MIN <u>64</u>	
				CIRCULATING PRESSURE PSI <u>900</u>	
				BBL/MIN <u>800</u>	
				BOTTOMS UP (MIN) <u>33</u>	
				SYSTEM TOTAL (MIN) <u>71</u>	

SAMPLE FROM _____ FLOWLINE _____ PIT _____		MUD PROPERTIES		DAILY COST <u>1800</u>		CUMULATIVE COST <u>5740</u>	
FLOWLINE TEMPERATURE _____ OF _____							
TIME SAMPLE TAKEN <u>0800</u>							
DEPTH (FT) <u>4300</u>							
WEIGHT <input type="checkbox"/> (PPG) <input type="checkbox"/> (LB/CU. FT.) <u>10.5</u>							
MUD GRADIENT (PSI/FT) <u>5408</u>							
FUNNEL VISCOSITY (SEC/QT.) API AT _____ OF _____ <u>32</u>							
PLASTIC VISCOSITY CP AT _____ OF _____ <u>7</u>							
YIELD POINT (LB/100 SQ. FT.) <u>5</u>							
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. <u>2-3</u>							
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>							
FILTRATE API (ML/30 MIN) <u>18.0</u>							
API HT-HP FILTRATE (ML/30 MIN.) _____ OF _____ <u>2 1/2</u>							
CAKE THICKNESS 32nd IN. API _____ HT-HP _____ <u>11/2</u>							
P-ALKALINITY (PF.) & PM							
METHYL ORANGE ALKALINITY							
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>277,200</u> CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>16,000</u>							
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB) <u>11/2</u>							
SAND CONTENT (% BY VOL.) <u>TR</u>							
SOLIDS CONTENT (% BY VOL.) <u>3 1/2</u>							
OIL CONTENT (% BY VOL.) <u>0</u>							
WATER CONTENT (% BY VOL.) <u>96 1/2</u>							
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.) <u>950</u>							

Remarks and Recommendations:
Starch - 37
S Gel - 11
Salt - 28
B Gel - 2

Thank U

R. J. Vestal 572-7857 Williston 000573

SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE NO. AND LOCATION
ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-15 19 81 DEPTH 4025
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR TEXAS OIL & GAS CONTRACTOR BIRD RIG NO. 5
ADDRESS BILLING ADDRESS RIC SPUD DATE 8-11-81
REPORT FOR MR. WALT REPORT FOR MR. BYRON HANSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. W/C COUNTY ROOSEVELT STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>DRILLING</u>		SURFACE <u>854</u> IN. at <u>1149</u> FT.		HOLE PITS <u>256</u> <u>300</u>		PUMP SIZE x IN <u>54</u> <u>14</u>	
BIT SIZE (IN) <u>7 7/8</u>		INTERMEDIATE IN. at _____ FT.		TOTAL CIRCULATING VOLUME <u>556</u>		ANNULAR VEL (FT./MIN) <u>197</u>	
DRILL PIPE SIZE <u>4 1/2</u>		TYPE <u>X-H</u>		IN STORAGE		OPPOSITE DP <u>358</u>	
DRILL COLLAR SIZE <u>6 1/2</u>		LENGTH <u>509</u>		MUD TYPE <u>Salt Gel - STARCH</u>		PUMP MAKE <u>ENSCO</u>	
						MODEL <u>550</u>	
						BBU STROKE <u>126</u> STROKE/MIN <u>64</u>	
						CIRCULATING PRESSURE PSI <u>800</u>	
						BOTTOMS UP (MIN) <u>32</u>	
						SYSTEM TOTAL (MIN) <u>69.5</u>	

SAMPLE FROM ✓ FLOWLINE 117 PIT OF MUD PROPERTIES
FLOWLINE TEMPERATURE 117 OF

TIME SAMPLE TAKEN		DAILY COST		CUMULATIVE COST	
DEPTH (FT) <u>4025</u>		<u>2200</u>		<u>3940</u>	
WEIGHT (PPG) (LB./CU. FT) <u>10.47</u>		MUD PROPERTIES SPECIFICATIONS			
MUD GRADIENT (PSI/FT) <u>5408</u>		WEIGHT <u>10.4</u> VISCOSITY <u>32.34</u> FILTRATE <u>20cc</u>			
FUNNEL VISCOSITY (SEC./QT.) API AT _____ OF <u>34</u>		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
PLASTIC VISCOSITY CP AT _____ OF <u>9</u>		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			
YIELD POINT (LB./100 SQ. FT.) <u>9</u>		STARCH - 55X1 TOUR OR AS NEEDED FOR 20CC WL.			
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN. <u>3/6</u>		SALT GEL - 5 SVI TOUR			
PH & STRIP <u>7.2</u>		CHROMATE - 1 SX1 TOUR			
FILTRATE API (ML/30 MIN) <u>28</u>		SALT - KEEP SALT DBL FULL AT ALL TIMES.			
API HT-HP FILTRATE (ML/30 MIN.) _____ OF _____		RON GOOD 1" STREAM SALT H2O			
CAKE THICKNESS 32nd IN. API _____ HT-HP _____		DUMP AND CLEAN PITS AS NEEDED			
P-ALKALINITY (PF.) & PM _____					
METHYL ORANGE ALKALINITY _____					
SALT <u>264,000</u> CHLORIDE <u>169,000</u>					
CALCIUM <u>PPM</u> GYP (PPB) _____					
SAND CONTENT (% BY VOL) <u>IR</u>					
SOLIDS CONTENT (% BY VOL) <u>4 1/2</u>					
OIL CONTENT (% BY VOL) <u>0</u>					
WATER CONTENT (% BY VOL) <u>95 1/2</u>					
METHYLENE BLUE CAPACITY <u>CHROMATE</u> <u>175</u>					

Remarks and Recommendations: Starch - 50
Salt Gel - 62
Preservative - 1
Line - 2
Floc - 2

Red River Mud Co. 572-7857 Williston, N.D. 000374
SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-15 19 81 DEPTH 4025

API WELL NO. STATE COUNTY WELL S/T

OPERATOR TEXAS OIL & GAS CONTRACTOR BIRD RIG NO. 5
ADDRESS BILLING ADDRESS RIG SPUD DATE 8-11-81
REPORT FOR MR. WAIT REPORT FOR MR. BYRON HANSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. W/C COUNTY ROOSEVELT STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY DRILLING		SURFACE 854 IN. at 1149 FT.		HOLE 256 PITS 300		PUMP SIZE x IN 54 x 14	
BIT SIZE (IN) 7 7/8		INTERMEDIATE IN. at FT.		TOTAL CIRCULATING VOLUME 556		PUMP MAKE ENACO MODEL 550	
DRILL PIPE SIZE 4 1/2		PRODUCTION OR LINE IN. at FT.		IN STORAGE		BBL/STROKE 126 STROKE/MIN 64	
DRILL COLLAR SIZE 6 1/2		MUD TYPE Salt Gel - STARCH		BBL/MIN 8.0		CIRCULATING PRESSURE PSI 800	
LENGTH 509						BOTTOMS UP (MIN) 32	
						SYSTEM TOTAL (MIN) 69.5	

SAMPLE FROM FLOWLINE PIT MUD PROPERTIES DAILY COST 2200 CUMULATIVE COST 3940

TIME SAMPLE TAKEN		MUD PROPERTIES SPECIFICATIONS	
DEPTH (FT) 4025		WEIGHT 10.4 VISCOSITY 32.34 FILTRATE 20cc	
WEIGHT (PPG) (LB./CU. FT.) 10.4		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
MUD GRADIENT (PSI/FT) 5408		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
FUNNEL VISCOSITY (SEC./QT.) API AT 34		STARCH - 5 SVI TOOK OR AS	
PLASTIC VISCOSITY CP AT 9		NEEDED FOR 20CC WLL.	
YIELD POINT (LB./100 SQ. FT.) 9		SALT GEL - 5 SVI TOOK	
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN. 3/6		CHROMATE - 1 SVI TOOK	
PH/STRIP METER 7.2		SALT - KEEP SALT BAL FULL	
FILTRATE API (ML/30 MIN) 28		AT ALL TIMES.	
API HT-HP FILTRATE (ML/30 MIN.) 0F		RUN GOOD 1" STARCH SALT 120	
CAKE THICKNESS 32nd IN. API HT-HP 3/2		DUMP AND CLEAN PITS AS NEEDED	
P-ALKALINITY (PF.) & PM			
METHYL ORANGE ALKALINITY			
SALT 264,000 CHLORIDE 11,000			
CALCIUM P.P.M. GYP (PPB)			
SAND CONTENT (% BY VOL) TR			
SOLIDS CONTENT (% BY VOL) 4m			
OIL CONTENT (% BY VOL) 0			
WATER CONTENT (% BY VOL) 75			
METHYLENE BLUE CAPACITY (ml/ml mud) (equiv. #/bbl. bent.)			
CHROMATE 175			

Remarks and Recommendations:

Starch - 50
Salt Gel - 62
Preservative - 1
Lime - 2
Floc - 2

Thank you

Richard Vergha
Service Engineer
701-572-7857
Williston, N.D.
000375

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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FEB 25 1981

Office of Enforcement
Compliance & Environmental
Justice

REPORT
NO.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



DATE 8-14 1981 DEPTH 3485

API WELL NO. STATE COUNTY WELL S/T

OPERATOR TEXAS OIL & GAS CONTRACTOR B.I.A.D. RIG NO. 5
ADDRESS BILLINGS ADDRESS B.I.G. SPUD DATE 8-11-81
REPORT FOR MR. WAET DYER REPORT FOR MR. BYRON ROYSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. BUCKLES A#1 FIELD OR BLOCK NO. W/C COUNTY ROOSEVELT STATE MONT

OPERATION		CASING	MUD VOLUME (BBL)		CIRCULATION DATA	
PUMP SIZE x IN	ANNULAR VEL. (FT./MIN)	OPPOSITE DP	OPPOSITE COLLAR	CIRCULATING PRESSURE PSI	BOTTOMS UP (MIN)	SYSTEM TOTAL (MIN)
54 14	197	358	1000	28	65	
PUMP MAKE & MODEL	BBL/STROKE	STROKE/MIN	BBL/MIN			
EMSCO 550	126	64	8.0			

SAMPLE FROM FLOWLINE OF PIT MUD PROPERTIES

TIME SAMPLE TAKEN		DEPTH (FT)	WEIGHT (PPG) (LB/CU. FT)	MUD GRADIENT (PSI/FT)	FUNNEL VISCOSITY (SEC/QT.) API AT OF	PLASTIC VISCOSITY CP AT OF	YIELD POINT (LB/100 SQ. FT.)	GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN.	PH STRIP METER	FILTRATE API (ML/30 MIN)	API HT-HP FILTRATE (ML/30 MIN.) OF	CAKE THICKNESS 32nd IN. API HT-HP	P-ALKALINITY (PF.) & PM	METHYL ORANGE ALKALINITY	SALT P.P.M. G.P.G.	CHLORIDE P.P.M. G.P.G.	CALCIUM P.P.M. GYP (PPB)	SAND CONTENT (% BY VOL)	SOLIDS CONTENT (% BY VOL)	OIL CONTENT (% BY VOL)	WATER CONTENT (% BY VOL)	METHYLENE BLUE CAPACITY (ml/ml mud) (equiv. #/Bbl. bent.)
Pit Check		1800	9.7	50.44	39	1	1	0-0	8.0	20.4		1/32			204,600	124,000	Hwy	0	TR	0	100	Chromate 100

Remarks and Recommendations:

Floc-1 Materials for 8-13-81
Lime-1

Signature: [Handwritten Signature]

Signature: [Handwritten Signature]
Service Engineer: [Handwritten Signature]
Telephone: 572-7857 Exchange: [Handwritten Signature]

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



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FEB 25 1981

Office of Enforcement
Compliance & Environmental
Justice

REPORT NO. _____

DATE 8-14 19 81 DEPTH 3485
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR TEXAS OIL & GAS CONTRACTOR BIARD RIG NO. 5
ADDRESS BILLINGS ADDRESS BIG SPUD DATE 8-11-81
REPORT FOR MR. WIRET OVER REPORT FOR MR. BURTON HANSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. W/C COUNTY BROOKS STATE MONT
OPERATION TRIP CASING 9 5/8 IN. at 1149 FT. MUD VOLUME (BBL) 220 CIRCULATION DATA
PRESENT ACTIVITY TRIP SURFACE 9 5/8 IN. at 1149 FT. HOLE 220 PITS 300 PUMP SIZE x IN 54 x 1 1/4 ANNULAR VEL. (FT./MIN) 187
BIT SIZE (IN) 7 1/2 NO. 3 INTERMEDIATE IN. at FT. TOTAL CIRCULATING VOLUME 520 PUMP MAKE/MODEL EMSCO OPPOSITE DP 258
DRILL PIPE SIZE 6 1/2 TYPE V-N PRODUCTION OR LINE IN. at FT. IN STORAGE BBL/STROKE STROKE/MIN 126 CIRCULATING PRESSURE PSI 1000
DRILL COLLAR SIZE 6 1/4 LENGTH 509 MUD TYPE Self-Water - Starch BBL/MIN 8.0 BOTTOMS UP (MIN) 28
SYSTEM TOTAL (MIN) 65

SAMPLE FROM _____ FLOWLINE _____ PIT _____ MUD PROPERTIES
FLOWLINE TEMPERATURE _____ OF _____ DAILY COST 50 CUMULATIVE COST 1740

TIME SAMPLE TAKEN P.T. Check 1800
DEPTH (FT) 3185
WEIGHT 9.8 (PPG) (LB./CU. FT.) 9.7
MUD GRADIENT (PSI/FT) 5044
FUNNEL VISCOSITY (SEC./QT.) API AT _____ OF 39
PLASTIC VISCOSITY CP AT _____ OF 1
YIELD POINT (LB./100 SQ. FT.) 1
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN. 0-0
PH ☐ STRIP ☐ METER 8.0
FILTRATE API (ML/30 MIN) 20.4
API HT-HP FILTRATE (ML/30 MIN.) _____ OF 1/32
CAKE THICKNESS 32nd IN. API _____ HT-HP 1/32
P-ALKALINITY (PF.) & PM 124
METHYL ORANGE ALKALINITY 124
SALT 204.600 (P.P.M.) CHLORIDE 124 (P.P.M.)
CALCIUM 124 (P.P.M.) GYP (PPB) 124
SAND CONTENT (% BY VOL) 0
SOLIDS CONTENT (% BY VOL) TR
OIL CONTENT (% BY VOL) 0
WATER CONTENT (% BY VOL) 100
METHYLENE BLUE CAPACITY ☐ (ml/ml mud) ☐ (equiv. #/Bbl. bent.) Chromate 120

Remarks and Recommendations:
Flow - 1 Materials for 8-13-81
Line - 1

John Heston
Tony Henderson 572-7857 Williston 000377
SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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Office of Enforcement
Compliance & Environmental
Justice

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857

REPORT NO. _____

DATE 2-13 1981 DEPTH 1210
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR <u>TEXAS OIL LOGS</u>		CONTRACTOR <u>B.I.A.D.</u>		RIG NO. <u>5</u>	
ADDRESS <u>BILLINGS</u>		ADDRESS <u>A.I.C.</u>		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>WALT DYER</u>		REPORT FOR MR. <u>BUDON HANSON</u>		SECTION, TOWNSHIP, RANGE <u>27N 28W 51E</u>	
WELL NAME AND NO. <u>BUCKLE AFF 1</u>		FIELD OR BLOCK NO. <u>WIC</u>		COUNTY <u>ROOSEVELT</u>	
				STATE <u>MONT</u>	
OPERATION <u>Make up</u>		CASING <u>8 7/8 IN. at 1149 FT.</u>		MUD VOLUME (BBL) <u>70</u>	
PRESENT ACTIVITY <u>Make up</u>		SURFACE <u>8 7/8 IN. at 1149 FT.</u>		HOLE <u>70</u>	
BIT SIZE (IN) <u>7 7/8</u>		INTERMEDIATE <u>IN. at FT.</u>		PITS <u>300</u>	
DRILL PIPE SIZE <u>4 1/2</u>		PRODUCTION OR LINE <u>IN. at FT.</u>		TOTAL CIRCULATING VOLUME <u>370</u>	
DRILL COLLAR SIZE <u>6 1/2</u>		MUD TYPE <u>WATER</u>		IN STORAGE	
LENGTH <u>509</u>				PUMP SIZE x IN <u>5 1/2 x 1 1/4</u>	
				ANNULAR VEL. (FT./MIN) <u>197</u>	
				PUMP MAKE <u>ENSCO</u>	
				MODEL <u>550</u>	
				OPPOSITE DP <u>197</u>	
				OPPOSITE COLLAR <u>350</u>	
				CIRCULATING PRESSURE PSI <u>126</u>	
				STROKE/MIN <u>64</u>	
				BBL/MIN <u>8.0</u>	
				TOTAL (MIN) <u>1690</u>	
SAMPLE FROM <u>FLOWLINE</u>		PIT <u>0F</u>		DAILY COST <u>0</u>	
FLOWLINE TEMPERATURE <u>0F</u>		MUD PROPERTIES		CUMULATIVE COST <u>1690</u>	
TIME SAMPLE TAKEN				MUD PROPERTIES SPECIFICATIONS	
DEPTH (FT) <u>1210</u>				WEIGHT	
WEIGHT <input type="checkbox"/> (PPG) <input type="checkbox"/> (LB/CU. FT.)				VISCOSITY	
MUD GRADIENT (PSI/FT)				FILTRATE	
FUNNEL VISCOSITY (SEC/QT.) API AT <u>0F</u>				BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
PLASTIC VISCOSITY CP AT <u>0F</u>				<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
YIELD POINT (LB/100 SQ. FT.)				<u>DRILL OUT WITH CLEAR</u>	
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN.				<u>WATER.</u>	
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER				<u>CIACINTE RESERVE PIT.</u>	
FILTRATE API (ML/30 MIN)				<u>MIX LINE AND FINE TO</u>	
API HT-HP FILTRATE (ML/30 MIN.) <u>0F</u>				<u>MAINTAIN CLEAR WATER AT</u>	
CAKE THICKNESS 32nd IN. API HT-HP				<u>PUMP SECTION.</u>	
P-ALKALINITY (PF.) & PM					
METHYL ORANGE ALKALINITY					
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G.					
CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G.					
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)					
SAND CONTENT (% BY VOL.)					
SOLIDS CONTENT (% BY VOL.)					
OIL CONTENT (% BY VOL.)					
WATER CONTENT (% BY VOL.)					
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.)					

Remarks and Recommendations:

Service Engineer: Rick Vestal Telephone: 572-7857 Exchange: Will. Mobile Service: 000379 Whse. No. and Location: 101

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



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Office of Enforcement
Compliance & Environmental
Justice

REPORT NO. _____

DATE 8-12 19 81 DEPTH 859
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR <u>Texas Oil & Gas</u>		CONTRACTOR <u>Bird</u>		RIG NO. <u>5</u>	
ADDRESS <u>Billings</u>		ADDRESS <u>Rig</u>		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>Walt Poyer</u>		REPORT FOR MR. <u>Byron Hanson</u>		SECTION, TOWNSHIP, RANGE <u>27-28N-51E</u>	
WELL NAME AND NO. <u>Buckles B² 1</u>		FIELD OR BLOCK NO. <u>W/C</u>		COUNTY <u>Roosevelt</u> STATE <u>Mont</u>	
OPERATION <u>Drilling Surface</u>		CASING SURFACE IN. at FT. INTERMEDIATE IN. at FT. PRODUCTION OR LINE IN. at FT.		MUD VOLUME (BBL) HOLE PITS TOTAL CIRCULATING VOLUME IN STORAGE	
BIT SIZE (IN) <u>12 1/4</u> NO. <u>1</u>		DRILL PIPE SIZE <u>4 1/2</u> TYPE <u>XH</u>		DRILL COLLAR SIZE <u>6 1/4</u> LENGTH <u>509</u>	
PUMP SIZE x IN <u>5 1/2 x 14</u>		ANNULAR VEL. (FT./MIN) OPPOSITE DP <u>197</u>		PUMP MAKE <u>Emco</u> MODEL <u>550</u>	
BBL/STROKE <u>126</u>		STROKE/MIN <u>64</u>		CIRCULATING PRESSURE PSI BOTTOMS UP (MIN) SYSTEM TOTAL (MIN)	
BBL/MIN <u>8.0</u>					

SAMPLE FROM _____ FLOWLINE _____ PIT _____		MUD PROPERTIES		DAILY COST <u>900</u>		CUMULATIVE COST <u>900</u>	
FLOWLINE TEMPERATURE _____ °F							
TIME SAMPLE TAKEN		<u>0800</u>					
DEPTH (FT.)		<u>859</u>					
WEIGHT <input type="checkbox"/> (PPG) <input type="checkbox"/> (LB/BU. FT.)		<u>10.2</u>					
MUD GRADIENT (PSI/FT.)		<u>5304</u>					
FUNNEL VISCOSITY (SEC/QT.) API AT _____ °F		<u>70+</u>					
PLASTIC VISCOSITY CP AT _____ °F							
YIELD POINT (LB/100 SQ. FT.)							
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN.							
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER							
FILTRATE API (ML/30 MIN.)							
API HT-HP FILTRATE (ML/30 MIN.) _____ °F							
CAKE THICKNESS 32nd IN. API _____ HT-HP _____							
P-ALKALINITY (PF.) & PM							
METHYL ORANGE ALKALINITY							
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G.							
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)							
SAND CONTENT (% BY VOL.)							
SOLIDS CONTENT (% BY VOL.)							
OIL CONTENT (% BY VOL.)							
WATER CONTENT (% BY VOL.)							
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.)							

Vis - Maintain 40-45 Vis with Salt Gel & Lime if needed 10 sec Gel to 1 sec Lime

WT. keep WT up over 10.1 with Salt
If we hit the water flow then we will mix the Barite for the necessary wt. to kill it

Water - Run enough water to keep Vis at 40-45 and keep pit volume up

Remarks and Recommendations:

80-Salt Gel
3-Lime
40-Salt

Thombe 104

SERVICE ENGINEER <u>Randy Vestal</u>		TELEPHONE <u>572-7857</u>		EXCHANGE		MOBILE SERVICE		WHSE. NO. AND LOCATION	
---	--	------------------------------	--	----------	--	----------------	--	------------------------	--

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Office of Enforcement
Compliance & Environmental
Justice

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-12 19 81 DEPTH 859
API WELL NO. _____ STATE _____ COUNTY _____ WELL NO. _____ S/T _____

OPERATOR Texas Oil & Gas CONTRACTOR R. G. Rind RIG NO. 5
ADDRESS Billings ADDRESS R. G. SPUD DATE 8-11-81
REPORT FOR MR. Walt Dyer REPORT FOR MR. Byron Hanson SECTION, TOWNSHIP, RANGE 22-28N-51E
WELL NAME AND NO. Buckles B-1 FIELD OR BLOCK NO. W/K COUNTY Roosevelt STATE Mont

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>Relg Surface</u>	SURFACE IN. at _____ FT.	HOLE	PITS	PUMP SIZE x IN <u>5 1/2 x 14</u>	ANNULAR VEL. (FT/MIN) OPPOSITE DP <u>197</u>		
BIT SIZE (IN) <u>12 1/4</u>	NO <u>1</u>	INTERMEDIATE IN. at _____ FT.	TOTAL CIRCULATING VOLUME	PUMP MAKE <u>Emco</u> MODEL <u>550</u>	OPPOSITE COLLAR <u>358</u>		
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>XH</u>	PRODUCTION OR LINE IN. at _____ FT.	IN STORAGE	BBL/STROKE <u>126</u> STROKE/MIN <u>64</u>	CIRCULATING PRESSURE PSI		
DRILL COLLAR SIZE <u>6 1/4</u>	LENGTH <u>509</u>	MUD TYPE		BBL/MIN <u>8.0</u>	BOTTOMS UP (MIN)		
					SYSTEM TOTAL (MIN)		

SAMPLE FROM _____ FLOWLINE _____ PIT _____ OF _____
FLOWLINE TEMPERATURE _____ OF _____ MUD PROPERTIES

TIME SAMPLE TAKEN 0800
DEPTH (FT) 859
WEIGHT ☐ (PPG) ☐ (LB/CU. FT) 10.7
MUD GRADIENT (PSI/FT) 5304
FUNNEL VISCOSITY (SEC/QT.) API AT _____ OF 70

PLASTIC VISCOSITY CP AT _____ OF _____
YIELD POINT (LB/100 SQ. FT.) _____
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. _____

PH ☐ STRIP ☐ METER
FILTRATE API (ML/30 MIN) _____
API HT-HP FILTRATE (ML/30 MIN.) _____ OF _____

CAKE THICKNESS 32nd IN. API _____ HT-HP _____
P-ALKALINITY (PF) & PM _____

METHYL ORANGE ALKALINITY
SALT ☐ P.P.M. ☐ G.P.G. CHLORIDE ☐ P.P.M. ☐ G.P.G.

CALCIUM ☐ P.P.M. ☐ GYP (PPB) _____

SAND CONTENT (% BY VOL.) _____

SOLIDS CONTENT (% BY VOL.) _____

OIL CONTENT (% BY VOL.) _____

WATER CONTENT (% BY VOL.) _____

METHYLENE BLUE CAPACITY ☐ (ml/ml mud) ☐ (equiv. #Bbl. bent.) _____

DAILY COST 900 CUMULATIVE COST 900

MUD PROPERTIES SPECIFICATIONS

WEIGHT _____ VISCOSITY _____ FILTRATE _____
BY AUTHORITY: ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR
☐ OPERATOR'S REPRESENTATIVE ☐ OTHER

Vis - Maintain 40-45 Vis
with Salt Gel & lime if needed
10% Gel to 1% lime

WT. keep WT up over 10.1 with
Salt
If we hit the water flow then
we will mix the Barite for the
necessary wt. to kill it

Water - Run enough water to keep
Vis at 40-45 and keep pit
volume up

Remarks and Recommendations:

80 - Salt Gel
3 - Lime
40 - Salt

Compliance & Environmental
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Thur 104

R. L. Wadell 572-7857 000581
SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-27 19 81 DEPTH 5920
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR <u>TEXAS OIL & GAS</u>		CONTRACTOR <u>DIAP</u>		RIG NO. <u>5</u>	
ADDRESS <u>BILLINGS</u>		ADDRESS <u>A.C.</u>		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>WALT DYER</u>		REPORT FOR MR. <u>DAVID HANSON</u>		SECTION, TOWNSHIP, RANGE <u>22-29N-51E</u>	
WELL NAME AND NO. <u>BUCKLEY #1</u>		FIELD OR BLOCK NO. <u>W/C</u>		COUNTY <u>ROUSEVELT</u>	
OPERATION <u>LOGGING</u>		CASING <u>8 5/8 IN. at 1149 FT.</u>		STATE <u>MONT</u>	
PRESENT ACTIVITY <u>LOGGING</u>		MUD VOLUME (BBL) <u>378</u>		CIRCULATION DATA	
BIT SIZE (IN) <u>7 7/8</u>		HOLE PITS <u>300</u>		PUMP SIZE x IN <u>5 1/2 x 14</u>	
NO <u>5</u>		TOTAL CIRCULATING VOLUME <u>678</u>		ANNULAR VEL. (FT./MIN) <u>197</u>	
DRILL PIPE SIZE <u>4 1/2</u>		IN STORAGE		PUMP MAKE <u>EMCO</u>	
TYPE <u>XL</u>		PRODUCTION OR LINE <u>IN. at</u>		MODEL <u>550</u>	
DRILL COLLAR SIZE <u>6 1/4</u>		MUD TYPE <u>SALT GEL - STARCH</u>		BBL/STROKE <u>126</u>	
LENGTH <u>509</u>				STROKE/MIN <u>64</u>	
				CIRCULATING PRESSURE PSI <u>800</u>	
				BOTTOMS UP (MIN) <u>47</u>	
				SYSTEM <u>85</u>	
				TOTAL (MIN) <u>85</u>	

SAMPLE FROM FLOWLINE		PIT		MUD PROPERTIES	
FLOWLINE TEMPERATURE		OF		DAILY COST <u>6991</u>	
				CUMULATIVE COST <u>20399</u>	
TIME SAMPLE TAKEN <u>0900</u>		DEPTH (FT) <u>5920</u>		MUD PROPERTIES SPECIFICATIONS	
WEIGHT (PPG) (LB./CU. FT) <u>10.4</u>		MUD GRADIENT (PSI/FT) <u>1.5408</u>		WEIGHT	
FUNNEL VISCOSITY (SEC./QT.) API AT _____ OF <u>42</u>		PLASTIC VISCOSITY CP AT _____ OF <u>12</u>		VISCOSITY	
YIELD POINT (LB./100 SQ. FT.) <u>8</u>		GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN. <u>3-8</u>		FILTRATE	
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>		FILT RATE API (ML/30 MIN) <u>6.0</u>		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN	
API HT-HP FILTRATE (MU/30 MIN.) _____ OF <u>2/32</u>		CAKE THICKNESS 32nd IN. API _____ HT-HP <u>2/32</u>		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE	
P-ALKALINITY (PF.) & PM		METHYL ORANGE ALKALINITY		<input type="checkbox"/> DRILLING CONTRACTOR	
SALT <input type="checkbox"/> P.P.M. <u>306.75</u> CHLORIDE <input type="checkbox"/> P.P.M. <u>182,300</u>		CALCIUM <input type="checkbox"/> P.P.M. <u>11.7</u>		<input type="checkbox"/> OTHER	
<input type="checkbox"/> G.P.G.		SAND CONTENT (% BY VOL.) <u>1.1</u>			
		SOLIDS CONTENT (% BY VOL.) <u>3 1/2</u>			
		OIL CONTENT (% BY VOL.) <u>0</u>			
		WATER CONTENT (% BY VOL.) <u>96 1/2</u>			
		METHYLENE BLUE CAPACITY (ml/ml mud) (equiv. #/Bbl. bent.) <u>Chromite</u>			

Mud is Slime To Run Pipe
May want to run in a little
more Fiber!

Remarks and Recommendations:

STARCH - 55
SALT GEL - 96
SALT - 45
MICA - 65
CHROMITE - 2
CEDAR FIBER - 72
BARITE - 25

STARCH - 15
SALT GEL - 30
CEDAR FIBER - 25

22 NW
Q1300

2.1 ST
5691

Tony & Rod

SERVICE ENGINEER

TELEPHONE

EXCHANGE

MOBILE SERVICE

WHSE. NO. AND LOCATION

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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000382

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 4-22 19 81 DEPTH 5920
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR <u>TEXAS OIL & GAS</u>		CONTRACTOR <u>BIAD</u>		RIG NO. <u>5</u>	
ADDRESS <u>BILLINGS</u>		ADDRESS <u>P.C.</u>		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>WALT DYER</u>		REPORT FOR MR. <u>ARON HANSON</u>		SECTION, TOWNSHIP, RANGE <u>22 23N-51E</u>	
WELL NAME AND NO. <u>BOWLING #1</u>		FIELD OR BLOCK NO. <u>W11</u>		COUNTY <u>ROOSEVELT</u>	
OPERATION <u>LOGGING</u>		CASING <u>IN. at 1149 FT.</u>		STATE <u>MONT</u>	
PRESENT ACTIVITY <u>LOGGING</u>		MUD VOLUME (BBL) <u>378</u>		CIRCULATION DATA	
BIT SIZE (IN) NO. <u>7 7/8 5</u>		HOLE PITS <u>300</u>		PUMP SIZE x IN <u>5 1/2 1 1/4</u>	
DRILL PIPE SIZE TYPE <u>4 1/2 YH</u>		TOTAL CIRCULATING VOLUME <u>678</u>		ANNULAR VEL. (FT./MIN) <u>197</u>	
DRILL COLLAR SIZE <u>6 1/4 509</u>		IN STORAGE		OPPOSITE DP <u>197</u>	
MUD TYPE <u>SAIT GEL - STARCH</u>		BBU/STROKE STROKE/MIN <u>126 64</u>		OPPOSITE COLLAR <u>258</u>	
SAMPLE FROM _____ FLOWLINE _____ PIT _____		BBU/MIN <u>80</u>		CIRCULATING PRESSURE PSI <u>806</u>	
FLOWLINE TEMPERATURE _____ OF		MUD PROPERTIES		BOTTOMS UP (MIN) <u>47</u>	
TIME SAMPLE TAKEN <u>0900</u>		DAILY COST <u>6991</u>		SYSTEM TOTAL (MIN) <u>85</u>	
DEPTH (FT) <u>5920</u>		CUMULATIVE COST <u>20399</u>			
WEIGHT <input type="checkbox"/> (PPG) <input type="checkbox"/> (LB/CU. FT.) <u>10.4</u>		MUD PROPERTIES SPECIFICATIONS			
MUD GRADIENT (PSI/FT) <u>.5408</u>		WEIGHT _____ VISCOSITY _____ FILTRATE _____			
FUNNEL VISCOSITY (SEC./QT.) API AT _____ OF <u>42</u>		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
PLASTIC VISCOSITY CP AT _____ OF <u>12</u>		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			
YIELD POINT (LB/100 SQ. FT.) <u>8</u>		<u>Mud in Slugs to Run Pipe</u>			
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. <u>3-8</u>		<u>May want to run in a little</u>			
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>		<u>more Fiber</u>			
FILTRATE API (ML/30 MIN) <u>6.0</u>					
API HT-HP FILTRATE (ML/30 MIN.) _____ OF					
CAKE THICKNESS 32nd IN. API HT-HP <u>3/32</u>					
P-ALKALINITY (PF) & PM					
METHYL ORANGE ALKALINITY					
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>306,755</u> CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>181,300</u>					
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB) <u>11.7</u>					
SAND CONTENT (% BY VOL.) <u>7.7</u>					
SOLIDS CONTENT (% BY VOL.) <u>3 1/2</u>					
OIL CONTENT (% BY VOL.) <u>0</u>					
WATER CONTENT (% BY VOL.) <u>96 1/2</u>					
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.) <u>Chromide 806</u>					

SAMPLE FROM _____ FLOWLINE _____ PIT _____		MUD PROPERTIES	
FLOWLINE TEMPERATURE _____ OF		DAILY COST <u>6991</u>	
TIME SAMPLE TAKEN <u>0900</u>		CUMULATIVE COST <u>20399</u>	
DEPTH (FT) <u>5920</u>		MUD PROPERTIES SPECIFICATIONS	
WEIGHT <input type="checkbox"/> (PPG) <input type="checkbox"/> (LB/CU. FT.) <u>10.4</u>		WEIGHT _____ VISCOSITY _____ FILTRATE _____	
MUD GRADIENT (PSI/FT) <u>.5408</u>		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
FUNNEL VISCOSITY (SEC./QT.) API AT _____ OF <u>42</u>		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
PLASTIC VISCOSITY CP AT _____ OF <u>12</u>		<u>Mud in Slugs to Run Pipe</u>	
YIELD POINT (LB/100 SQ. FT.) <u>8</u>		<u>May want to run in a little</u>	
GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN. <u>3-8</u>		<u>more Fiber</u>	
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>			
FILTRATE API (ML/30 MIN) <u>6.0</u>			
API HT-HP FILTRATE (ML/30 MIN.) _____ OF			
CAKE THICKNESS 32nd IN. API HT-HP <u>3/32</u>			
P-ALKALINITY (PF) & PM			
METHYL ORANGE ALKALINITY			
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>306,755</u> CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>181,300</u>			
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB) <u>11.7</u>			
SAND CONTENT (% BY VOL.) <u>7.7</u>			
SOLIDS CONTENT (% BY VOL.) <u>3 1/2</u>			
OIL CONTENT (% BY VOL.) <u>0</u>			
WATER CONTENT (% BY VOL.) <u>96 1/2</u>			
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.) <u>Chromide 806</u>			

Remarks and Recommendations:

STARCH - 55 STARCH - 15 } 22 ml
SAIT GEL - 96 SAIT GEL - 30 } 91300
SAIT - 45 CEORR FIBER - 25 }
MICA - 65 }
CHROMIDE - 2
CEORR FIBER - 72
BARITE - 25

SERVICE ENGINEER <u>Tony & Rick</u>		TELEPHONE		EXCHANGE		MOBILE SERVICE		WHSE. NO. AND LOCATION	
--	--	-----------	--	----------	--	----------------	--	------------------------	--

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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Office of Enforcement
Compliance & Environmental
Justice

000583

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO.

NO.

DATE 8-21-81 DEPTH 5822
API WELL NO. STATE COUNTY WELL S/T

OPERATOR <u>Texas Oil & Gas</u>		CONTRACTOR <u>Bard</u>		RIG NO. <u>5</u>
ADDRESS <u>Billings</u>		ADDRESS <u>Ris</u>		SPUD DATE <u>8-11-81</u>
REPORT FOR MR. <u>Walt Dyer</u>		REPORT FOR MR. <u>Byron Hanson</u>		SECTION, TOWNSHIP, RANGE <u>22-28N-51E</u>
WELL NAME AND NO. <u>Bucklers #1</u>		FIELD OR BLOCK NO. <u>W Pepp</u>	COUNTY <u>Roosevelt</u>	STATE <u>Mont</u>
OPERATION <u>Drilling</u>	CASING <u>8 7/8 IN. at 1149 FT.</u>	MUD VOLUME (BBL) <u>373</u>	CIRCULATION DATA	
PUMP SIZE x IN <u>5 1/2 x 14</u>	ANNULAR VEL. (FT./MIN) <u>197</u>	PUMP MAKE <u>Emco</u>		
BIT SIZE (IN) <u>7 7/8</u>	NO <u>4</u>	HOLE PITS <u>300</u>	TOTAL CIRCULATING VOLUME <u>673</u>	
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>RH</u>	INTERMEDIATE IN. at FT.	OPPOSITE COLLAR <u>358</u>	
DRILL COLLAR SIZE <u>6 1/4</u>	LENGTH <u>509</u>	PRODUCTION OR LINE IN. at FT.	CIRCULATING PRESSURE PSI <u>800</u>	
MUD TYPE <u>Salt Gel-Starch</u>		IN STORAGE	BOTTOMS UP (MIN) <u>45</u>	
SAMPLE FROM FLOWLINE PIT		DAILY COST <u>1950</u>	CUMULATIVE COST <u>13,408</u>	
FLOWLINE TEMPERATURE OF		MUD PROPERTIES SPECIFICATIONS		
TIME SAMPLE TAKEN <u>0800</u>		WEIGHT		
DEPTH (FT) <u>5822</u>		VISCOSITY		
WEIGHT (PPG) (LB./CU. FT.) <u>10.5</u>		FILTRATE		
MUD GRADIENT (PSI/FT) <u>.5512</u>		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR		
FUNNEL VISCOSITY (SEC./QT.) API AT OF <u>35</u>		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
PLASTIC VISCOSITY CP AT OF <u>9</u>		<u>Starch - 8 lbs / Tour or as needed for 15-18 cc WL.</u>		
YIELD POINT (LB./100 SQ. FT.) <u>6</u>		<u>Salt Gel - 10 lbs / Tour or as needed for 35-40 Uis</u>		
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN. <u>3-7</u>		<u>Salt - 30 lbs / Tour</u>		
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>		<u>Mica - 5 lbs / Tour</u>		
FILTRATE API (ML/30 MIN) <u>17</u>		<u>Fiber - 20 lbs / Tour</u>		
API HT-HP FILTRATE (ML/30 MIN.) OF <u>1/32</u>		<u>Chromate - 1 lb on day/lites</u>		
CAKE THICKNESS 32nd IN. API HT-HP <u>2/32</u>		<u>Run Grad 1" stream salt H₂O thru salt 661</u>		
P-ALKALINITY (PF.) & PM				
METHYL ORANGE ALKALINITY				
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>304,596</u> CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. <u>184,600</u>				
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB) <u>Huy</u>				
SAND CONTENT (% BY VOL.) <u>TR</u>				
SOLIDS CONTENT (% BY VOL.) <u>3 1/2</u>				
OIL CONTENT (% BY VOL.) <u>0</u>				
WATER CONTENT (% BY VOL.) <u>96 1/2</u>				
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.) <u>Chromate</u>				

Remarks and Recommendations:

Starch - 21
Salt Gel - 44
Mica - 15
Fiber - 5
Chromate - 1
Salt - 70

Raise WT. to 10.8 w/salt + Barite

Thank you

SERVICE ENGINEER <u>Roch Vetter</u>	TELEPHONE <u>572-7857</u>	EXCHANGE	MOBILE SERVICE	WHSE. NO. AND LOCATION
--	------------------------------	----------	----------------	------------------------

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

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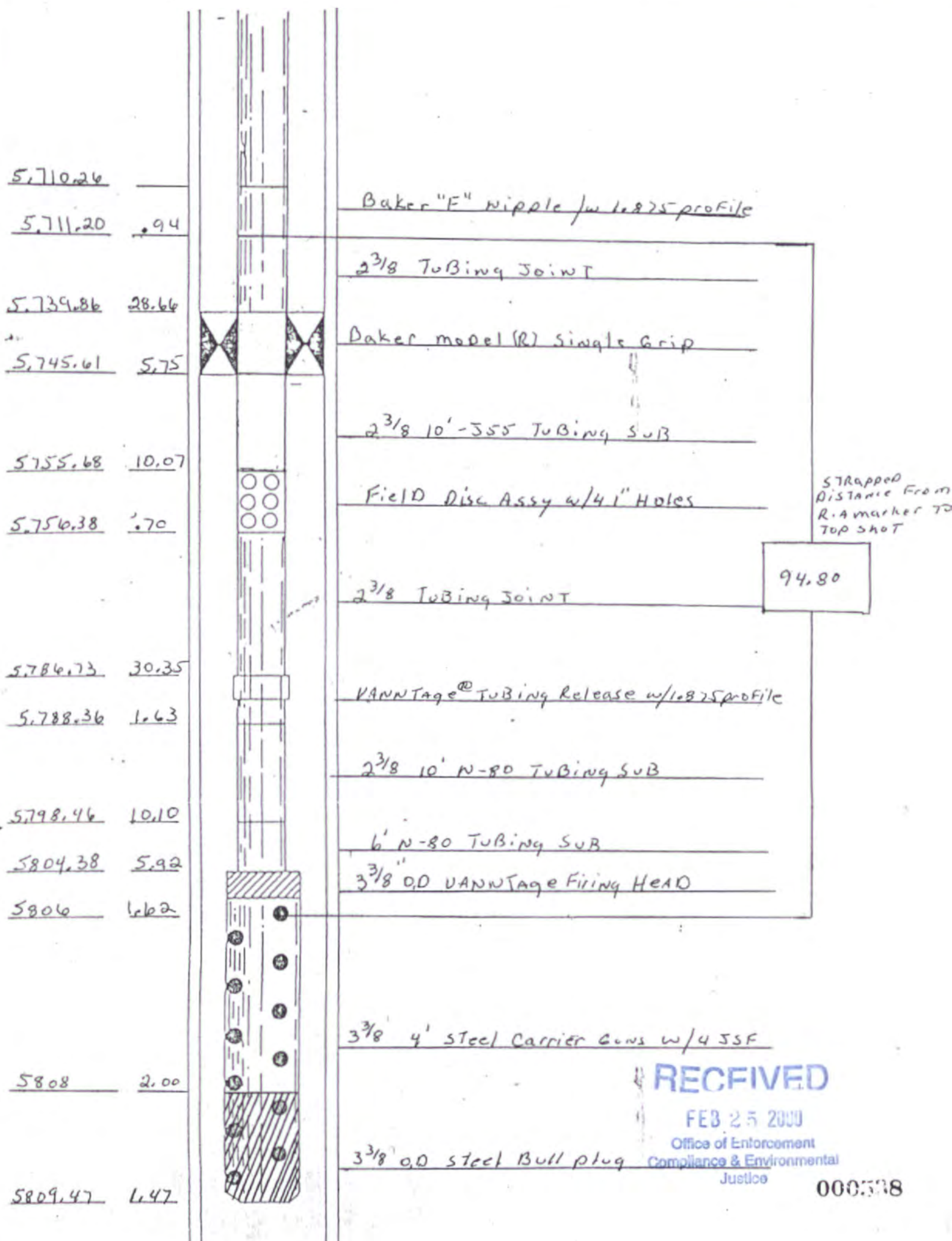


Vann

COMPANY Texas Oil & Gas
WELL Buckles #1
FIELD East poplar
COUNTY Roserved STATE MONTANA

Permanent Datum _____ Elev _____
g Measured From _____ Ft. Above Perm. Datum _____
illing Measured From _____ Elev. KB _____
DF _____
GL _____

DATE 9/2/81 TYPE FLUID IN HOLE B Fsw 9.5
IN NO. _____ LEVEL Full
RECORDED BY: James P. Whisenhunt MAX. REC. TEMP. DEG F. 240
WITNESSED BY: _____





ASTRO-CHEM SERVICE

well file

Post Office Box 972
Williston, North Dakota 58801
Phone (701) 572-7353

September 22, 1981

TXO Production Corp.
2705 Montana Ave.
Suite 300
Billings, MT. 59101
ATTN: Leo Heath

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

SEP 28 1981

Dear Sir:

The results of the analysis requested on your water sample received September 18, 1981, are as follows:

Sample	pH	Specific Gravity @ 77° F	Resistivity @ 77° F	Chloride	Sodium Chloride *
Buckles B-1	6.31	1.040	0.01 ohm-meters	36,965	60,936

* Calculated from the Chloride Value

These results were telephoned to your office September 21, 1981.

Thank you.

Sincerely,

Deborah A. Stevens

Deborah A. Stevens
Astro-Chem Lab.

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FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

DAS:jb
M-81-5033

000340

ASTRO-CHEM SERVICE



Post Office Box 222
Williston, North Dakota 58801
Phone (701) 572-7335

September 22, 1981

TXO Production Corp.
2705 Montana Ave.
Suite 300
Billings, MT. 59101
ATTN: Leo Heath

Dear Sir:

The results of the analysis requested on your water sample received September 18, 1981, are as follows:

Sample	pH	Specific Gravity @ 77° F	Resistivity @ 77° F	Chloride	Sodium Chloride *
Buckles B-1	6.31	1.040	0.01 ohm-meters	36,965	60,936

* Calculated from the Chloride Value

These results were telephoned to your office September 21, 1981.

Thank you.

Sincerely,

Deborah A. Stevens
Astro-Chem Lab.

DAS:jb
M-81-5033

000541

WELL SERVICING REPORT

LEASE BUCKIES

WELL NO. B-1

AREA BILLINGS, MT.
TEXAS OIL & GAS CORP.
DATE BILLINGS DISTRICT

TYPE JOB _____

PUMP CHANGE _____

ROD _____

TBG. _____

SWAB OCT 14 1981

OTHER _____

REASON FOR JOB NO OIL

DESCRIPTION _____

EQUIPMENT
CONDITION

TRIED THREE (3) SQUEEZE JOBS @ 5806-5808 NO SQUEEZE

PERF @ 5808-5806 - 200 GAL SPEARHEAD NO RESULTS -

500 GAL. SPEARHEAD + Apollo 40 + 300# WESTBLOX III, + 9 GALS. RATE 1.6-3 gal/min

FORMATION BROKE @ 8200# ISDP. 650# FLOWING RESTRICTION 1/64 CHOKE

@ 880-300# TANK GAUGE 6'7"

TUBING	NUMBER	SIZE	FEET	
TBG. JTS. _____	<u>186</u>	<u>2 3/8</u>	<u>5735'</u>	<u>GOOD</u>
TBG. SUBS _____	<u>-</u>			
TBG. ANCHOR MAKE & DESC. _____				
TBG. BELOW <u>PACKER ANCHOR</u> <u>1 JT. 31.1'</u>				
SEATING NIPPLE SET AT _____				
PERF. SUB _____ OR SLEEVE _____				
MUD ANCHOR OR (TAIL PIPE) <u>1 JT. 31.1</u> <u>5766'</u>				
PACKER TYPE <u>BASIN MODEL R</u> <u>10,000# SET ON IT.</u> SET AT <u>5735'</u>				<u>SHOT</u>
TBG. STUNG INTO PKR. _____ OR HANGING FREE _____				
TOTAL TBG. <u>187 JTS.</u>				
STATE ANY CHANGE MADE IN TBG. STRING <u>10' TUBING NOT RERUN NO SEAT NIPPLE</u>				

RODS	NUMBER	SIZE	FEET	
ROD _____				
ROD _____				
ROD _____				
ROD SUB _____				
ROD SUB _____				
POLISH ROD _____				
TOTAL RODS _____				
STATE ANY CHANGE IN ROD STRING _____				

PUMP	
PUMP TYPE _____	
TYPE HOLD DOWN OR ANCHOR _____	
CONDITION OF PUMP PULLED _____	
STATE ANY CHANGE MADE IN PUMP _____	

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Justice

WELL SERVICE CONTRACTOR: _____

HRS. ON JOB _____

ESTIMATED COST OF JOB _____ \$ _____

REMARKS _____

000539

REPORTED BY W.D. DYER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name East Poplar Field
Unit Name N/A
Participating Area N/A
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of October, 19 81

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE NW 22	28N	51E	OSI		0			

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: A. J. Kazie Address: 2705 Montana Ave. Ste. 300 Billings, MT
Title: Drilling Engineer Page 1 of 1 59101

000383

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356
MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of November, 19 81

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE NW 22	28N	51E	OSI		0			

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX
Authorized Signature: <u>A. J. Kage</u>	Address: <u>2705 Montana Ave. Ste 300 Billings,</u>		
Title: <u>Drilling Engineer</u>	Page <u>1</u> of <u>1</u>	<u>000382</u>	

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356
MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December, 19 81

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE NW 22 28N 51E			OSI		0			

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXXXX

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Compliance & Environmental
Justice

Authorized Signature: H. L. Kagle Address: 2705 Montana Ave. Ste 300 Billings, MT 59101
Title: Drilling Engineer Page 1 of 1

000381

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of January, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SEWN 22	28N	51E	OSI		0			

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

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Justice

Authorized Signature: A. J. Kasjee Address: 2705 Montana Ave. Ste. 300
Title: Drilling Engineer Page 1 of 1 Billings, MT
000380 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of February, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE 22	28N	51E	OSI		0			

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

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Office of Enforcement
Compliance & Environmental
Justice

Authorized Signature: A. L. Kagle Address: 2705 Montana Ave. Ste 300,
Title: Drilling Engineer Page 1 of 1 Billings, MT

000379

5910

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement NA
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of March, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE NW 22 28N 51E			OSI		0			

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXXXX

Authorized Signature: A. J. Kagle Address: 2705 Montana Ave. Ste 300 Billings, MT 5910
Title: Drilling Engineer Page 1 of 1 000378

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Compliance & Environmental
Justice

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356
MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name East Poplar
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of April, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE 22	28N	51E	OSI		0			

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: T. C. [Signature] Address: 2705 Montana Ave. Ste 300 Billings, MT 59101
Title: Production Dept. Page 1 of 1

000377

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005119
Communitization Agreement No. _____
Field Name East Poplar
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of May, 1982

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SENE 22	28N	51E	OSI		0			

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU*Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: T. [Signature] Address: P.O. BOX 1165 Williston, ND 58801
Title: Production Dept. Page 1 of 1

FEB 25 2000

Office of Enforcement

Conservation & Environmental

000376

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(12/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. _____
Communitization Agreement No. _____
Field Name EAST PG AR
Unit Name NA
Participating Area NA
County ROOSEVELT State MONTANA
Operator TXO PRODUCTION CORP
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of JUNE, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE NW 22	28N	51E	OSI	0	0	0	0	

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Produced	0		
*Sold	0		XXXXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
*Used on Lease	0		XXXXXXXXXXXXXXXXXXXX
*Injected	0		
*Surface Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
*Other (Identify)	0		
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXXXXXX

Authorized Signature: T. Cuff Address: P.O. BOX 1165, WILLISTON, NT
Title: PRODUCTION DEPARTMENT Page 1 of 1

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Compliance & Environmental

000375

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-00542
Communitization Agreement No. _____
Field Name EAST POPLAR
Unit Name NA
Participating Area NA
County ROOSEVELT State MT
Operator TXO PRODUCTION CORP
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of JULY, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SEnw22	28N	51E	OSI	0	0	0	0	

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0		
*Sold	0		XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXX
*Used on Lease	0		XXXXXXXXXXXXXXXXXX
*Injected	0		
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	
*Other (Identify)	0		
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	0		XXXXXXXXXXXXXXXXXX

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FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

Authorized Signature: T. Craft
Title: PRODUCTION DEPARTMENT

Address: P.O. BOX 1165, WILLISTON, ND

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WELL REPORT
FORM NO. 1
MARCH 1963

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
County Location Agreement No. _____
Field Name EAST POPLAR
Locality BUCKLES
Participating Area NA
County ROOSEVELT State MT
Operator TYO PRODUCTION CORP
☒ Attended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of FEB, 1984

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 259, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 36	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SEnw22	28N	51E	OSI	0	0	0	0	0

Received
Office of Enforcement
FEB 25 2000
Compliance & Env. Justice

If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0	0	0
*Sold	0	0	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	0	XXXXXXXXXXXXXXXXXX
*Used on Lease	0	0	XXXXXXXXXXXXXXXXXX
*Injected	0	0	0
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	0
*Other (Identify)	0	0	0
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity BTU Content	0	0	XXXXXXXXXXXXXXXXXX

Authorized Signature: L. W. Doughty
Title: PETROLEUM TECHINCHIN

Address: TYO PRODUCTION, BOX 1165, WILLISTON

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name EAST POPLAR
Unit Name BUCKLES
Participating Area NA
County ROOSEVELT State MT
Operator TWO PRODUCTION CORP
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for
of APRIL 19 84

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 389, 30 U.S.C. 396 and regulation 30 CFR 221.50) and the terms of the lease. Failure to report or the assessment of liquidated damages (30 CFR 221.54 (1)) shutting down operations, or basis for recommendation to cancel the lease (30 CFR 221.53).

Well No.	Sec. & Twp.	Range	Well Status	Days Prod.	Barrels of Oil	Barrels of Gas	Barrels of Water	Rem.
B-1	SENW22	28N 51E	OSI					

Received
Office of Enforcement
FEB 25 2000
Compliance & Env. Justice

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0	0	0
*Sold	0	0	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	0	XXXXXXXXXXXXXXXXXX
*Used on Lease	0	0	XXXXXXXXXXXXXXXXXX
*Injected	0	0	0
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	0
*Other (Identify)	0	0	0
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity: 30U Content	0	0	XXXXXXXXXXXXXXXXXX
Authorized Signature: <u>D. Wilkerson</u>	TWO PRODUCTION, BOX 1165, WILLIAMS, MT 59101		
Title: <u>PETROLEUM TECHINCHIN</u>	Page _____ of _____		

000109

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 5-329)
(2-78)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-00,539
Communitization Agreement No. _____
Field Name EAST POPLAR
Unit Name BUCKLES
Participating Area NA
County ROOSEVELT State MT
Operator TXO PRODUCTION CORP
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of MAY 1984

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 129, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.50), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SENW22	28N	51E	OSI	0	0	0	0	PLUGGED 5-21
	WELL	PLUGGED	5-21-84						

Received
Office of Enforcement
FEB 25 2000
Compliance & Env. Justice

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0	0	0
*Sold	0	0	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	0	XXXXXXXXXXXXXXXXXX
*Used on Lease	0	0	XXXXXXXXXXXXXXXXXX
*Injected	0	0	0
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	0
*Other (identify)	0	0	0
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity 30° Cent	0	0	XXXXXXXXXXXXXXXXXX

Authorized Signature: S. W. Clougherty Address: TXO PRODUCTION, BOX 1165, WILLISTON
Title: PETROLEUM TECHINCHIN Page _____ of _____

000105

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
TXO Production Corp.
3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL & 1980' FEL (NW NE)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

- REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:
- | | | |
|----------------------|-------------------------------------|--------------------------|
| TEST WATER SHUT-OFF | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON* | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (other) | | |

5. LEASE
14-20-0256-5439 Ft. Peck
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"B" #1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
25-085-21313
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GL, 2118' KB

(NOTE: Report results of multiple completion or zone change on Form 9-331-C)

Received
Office of Enforcement
FEB 25 2000

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give geologic dates, including estimated date of starting any proposed work. If well is directionally drilled, give surface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Due to uneconomic production, TXO Production Corp. proposes to P&A the above well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

- Set 35 sxs-cmt plug above perms
- Set cmt plug 50' in & 50' out of prod. csg stub.
- Set cmt plug 50' in & 50' out of surf csg shoe.
- Set cmt plug 25' above & 25' below Judith River.
- Set 15 sxs cmt plug @ surface.

Verbal approval was given by Don Miller at the BLM's Miles City office on May 21, 1984.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED M. David Cloutre TITLE Dir. & Prod. Engineer DATE June 1, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

000095

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
TXO Production Corp.
3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL & 1980' FEL (NW NE)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>
(other)	

5. LEASE
14-20-0256-5439 Ft. Peck
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"B" #1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
25-085-21313
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GL, 2118' KB

(NOTE: Report results of completion or zone change on Form 9-331-C)

Received
Office of Enforcement
FEB 25 2000

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent dates, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 25' sxs cmt through perms (5802'-5808').
2. 35' sxs cmt 5790'-5340'
3. 25' sxs cmt 4300'-4200' (50' below & 50' above 4 1/2" csg stub).
4. 40' sxs cmt 2450'-2350'.
5. 35' sxs cmt 1200'-1100' (50' below & 50' above 8-5/8" csg shoe).
6. 50' sxs cmt 950'-800' (25' below & 25' above Judith River).
7. 15' sxs cmt @ surface.

Casing was cutoff below surface.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED M. David Cloutre TITLE Drig. & Prod. Engineer June 1, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

003096

(SUBMIT IN QUADRUPPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

ARM 36.22.307 ARM 36.22.1003
 ARM 36.22.601 ARM 36.22.1004
 ARM 36.22.602 ARM 36.22.1013
 ARM 36.22.603 ARM 36.22.1301
 ARM 36.22.604 ARM 36.22.1306
 ARM 36.22.605 ARM 36.22.1309

NOTICE
 THIS FORM BECOMES A
 PERMIT WHEN STAMPED
 APPROVED BY AN AGENT
 OF THE BOARD.

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	XXXXXX
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 29, 19 84

Following is a { notice of intention to do work { on land { owned { described as follows:
 { report of work done { leased {

LEASE Buckles

MONTANA Roosevelt

(County)

East Poplar

(Field)

Well No. "B" #1 *CNWNE* 22 28N 51E
 (m. sec.) (Township) (Range) (Meridian)

The well is located 660 ft. from *N* line and 1980 ft. from *East* line of Sec. 22
XX

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2106'

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK RESULT

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 25 sxs cmt through perms (5802'-5808').
2. 35 sxs cmt 5790'-5340'.
3. 25 sxs cmt 4300'-4200' (50' below & 50' above 4½" csg stub).
4. 40 sxs cmt 2450'-2350'.
5. 35 sxs cmt 1200'-1100' (50' below & 50' above 8-5/8" csg shoe).
6. 50 sxs cmt 950'-800' (25' below & 25' above Judith River).
7. 15 sxs cmt @ surface.

Casing was cutoff below surface.

LOCATION INSPECTED & APPROVED:

Approved subject to conditions on reverse of form

Date JUN 18 1984

By *Clara Kasper* District Office Agent

Company TXO Production Corp.

By *M. David Cloutre* M. David CloutreTitle Drilling & Production Engineer
1800 Lincoln Center Building

Address Denver, CO 80264

BOARD USE ONLY
API WELL NUMBER

NOTE:—Reports on this form to be submitted to the appropriate District for approval
 DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN
 REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

P & A - MONTANA

BUCKLES "B" #1
Roosevelt Co./22-28N-51E

- 05/23/84 5840' PBTD, dig out valves. RU Halliburton. Pump 40 bbls of produced wtr dn tbg. Had 1800# @ 4 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. FLush w/ 23 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 23.5 bbls total @ end of squeeze. SWI w/ 1000# on tbg. Wait 4 hrs. TP was 1250#. Bled tbg press to 500#. SIFN. DW: 2050. CW: 2050.
- 05/24/84 5840' PBTD, SITP 760#, SICP 790#. Open annulus & bled off press. Tbg press bled off @ same time. Had no indication of fluid entry. MI & RU N. L. Well Service Rig #169. ND wellhead. NU BOP. TOOH w/ 186 jts 2-3/8", 4.7#, J-55, EUE tbg, model "R" single grip pkr, 1 jt 2-3/8" tbg. TIH w/ tbg. Spot 35 sxs Cl "G" cmt from 5790-5340'. TOOH & LD 25 jts tbg. SWI. SDFN. DW: 4035. CW: 6085.
- 05/26/84 5840' PBTD; pull csg out of slips. NU BOP. RU Wisco csg crew. LD 4000' of 4-1/2" csg. RD csg crew. TIH w/ 2-3/8" tbg to 2450'. RU Halliburton. Pump 40 sxs Cl "G" cmt from 2450-2350'. TOOH & LD tbg to 1200'. Pump 35 sxs cmt from 1200-1100'. TOOH & LD tbg to 950'. Pump 50 sxs cmt from 950-800'. TOOH & LD tbg. Pump 15 sxs cmt @ surf. RD Halliburton. ND BOP. RD N.L. & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 14,055. CW: 28,337.

RECEIVED

FEB 25 2000

Office of Enforcement
Compliance & Environmental
Justice

000388

BUCKLES 'B' #1

ROOSEVELT COUNTY,
MONTANA

SALVAGE VALUE

CASING HEAD 'GULFCO' 11" 3M# + 8 5/8" \$1070

PRODUCTION CASING (815') 4 1/2" 11.6#, K55 ST+C
@ 50% of \$6.80 \$2771

(1185') 4 1/2" 10.5#, K55 ST+C
@ 50% of \$6.40/lb \$3792

TUBING HEAD 11" 3M# + 7 1/2" 3M# 2 1/4" 51, p.s. \$6,576

TUBING (5766') 2 3/8", 4.7# J-55 EUE
@ 50% of \$3.46/lb \$9975

TOTAL SALVAGE VALUE = \$24,184

[TXO WI = 100%]

RECEIVED

FEB 25 2011

Office of Enforcement
Comptroller of Public Accounts
Justice

000303

PLUGGING COST

WORK OVER RIG	\$ 4,000
SUPERVISION	\$ 1,000
WELDER	\$ 120
CSBP	\$ 650
TRUCKING	\$ 2,000
CEMENTING	\$ 5,000
PIPE HANDLING TOOLS	\$ 2,000
FISHERMAN	\$ 300
PIPE INSPECTION	
2 3/8" TUBING (\$12.00/lb) 186 lbs	\$ 2,232
4 1/2" CASING (\$25.00/lb) 50 lbs	\$ 1,250
RE-CONTOURING, RESEEDING, & OTHER DIRT WORK	\$ 2,500

TOTAL PLUGGING COST	\$ 21,050
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RECEIVED
FEB 25 1964
COLUMBIA GAS SYSTEM
COLUMBIA GAS SYSTEM

000300

PLUGGING PROCEDURE

- 1.) N.D. TREE
- 2.) MIRU WIRE LINE UNIT
- 3.) SET PUMP THROUGH PLUG
- 4.) SET UP BOP
- 5.) MIRU WORKOVER RIG
- 6.) PULL UP AND RELEASE MODEL 'A' PACKER TOOL
W/ 2 3/8" TUBING
- 7.) RIH w/ CIBD, SET @ 5795', DUMP BAIL
5 SXS CEMENT ON CIBD
- 8.) LOCATE FREE POINT ON 4 1/2" CASING
- 9.) CUT 4 1/2" CASING @ FREE POINT AND TOOL
W/ 4 1/2" CASING
- 10.) TIH w/ 2 3/8" TUBING TO 4 1/2" CASING ST
- 11.) SPOT 35 SXS CEMENT PLUG IN AND OUT
4 1/2" CASING
- 12.) SPOT 35 SXS CEMENT PLUG IN AND OUT
8 5/8" SURFACE CASING @ 1,149'
- 13.) SPOT 10 SXS CEMENT PLUG @ SURFACE
- 14.) CUT CASING 4 FEET BELOW SURFACE
- 15.) WELD CAP, BURY, AND DO NOT LEAVE
DRY HOLE MARKER.
- 16.) RELEASE RIG
- 17.) TRANSFER TUBULARS AND SURFACE EQUIPMENT
TO RAYMOND YARD